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ARITHMETIC 3

Regrouped

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14 tens 2 ones

or

140 + 2 = 142

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Learning New Skills in
ARITHMETIC

By Albert G. W. Schlegel and Augusta S. Foose

Illustrated by John Lehman

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GRADE THREE

Sets—Combining and Separating; Number Facts to 20; Inverse Operations; Fractional Parts; Place Value; Thousands, Hundreds, Tens, Ones; Applying Commutative, Associative, and Distributive Principles; Number Chart; Mathematical Sentences; Ordinals; Time; Adding Three and Four Numbers; Doubles; Completing Equations; Number Line; Two and Three-Place Numbers; U. S. Money; Regrouping; Story Problems; Zero; Roman Numerals; Measures; Even and Odd Numbers; Multiplication and Division Facts; Regrouping in Multiplication.

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ELIZABETHTOWN, PA. ATLANTA, GA. DALLAS, TEXAS
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PREFACE

This series, LEARNING NEW SKILLS IN ARITHMETIC, has been written to supplement any standard basic elementary arithmetic textbook. The content of this unique series was carefully selected to conform to the new approach used in the most recent basic textbooks. These exercises provide well-balanced practice in both skills and meanings.

Numerous exercises are provided to give drill and practice in the fundamental arithmetic processes. The written problems conform very well with the drill and practice examples and give the pupil an opportunity to apply his work in arithmetic to practical life situations.

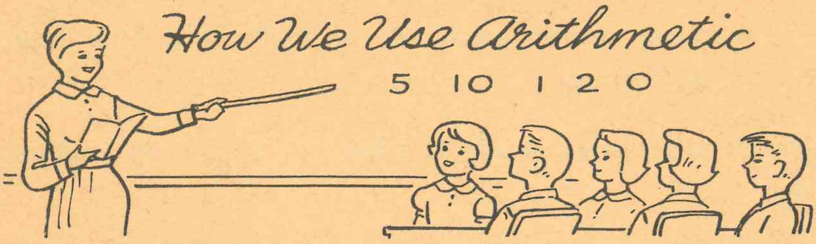
The organization and arrangement of the content of this series have been done with these features in mind:

1. The exercises are brief, specific, and varied.
2. The materials are arranged according to difficulty.
3. Accuracy, rather than speed, is emphasized.
4. To assist the pupil to understand new processes, examples and explanations are used at the top of the page where new processes are introduced.
5. The vocabulary has been carefully selected to meet the individual needs and abilities of the children of this age group.
6. Computational practice pages are usually followed by a page of problems which provide opportunity for applying the skills developed.
7. Generous "WORK SPACE" is provided.

These exercises may be used as homework assignments. The teacher should emphasize accuracy, neatness, legibility, and orderliness in their use.

THE AUTHORS

Using Numbers



Write three uses for arithmetic on these lines.

1. ______________________________

2. ______________________________

3. ______________________________

Write the answers to these questions.

1. In the picture, how many children are sitting around the table? __________

2. What grade were you in last year? __________

3. How many children are in your classroom? __________

4. How many girls are in your classroom? __________

5. How many boys are in your classroom? __________

6. Count the desks in your room. How many desks did you count? __________

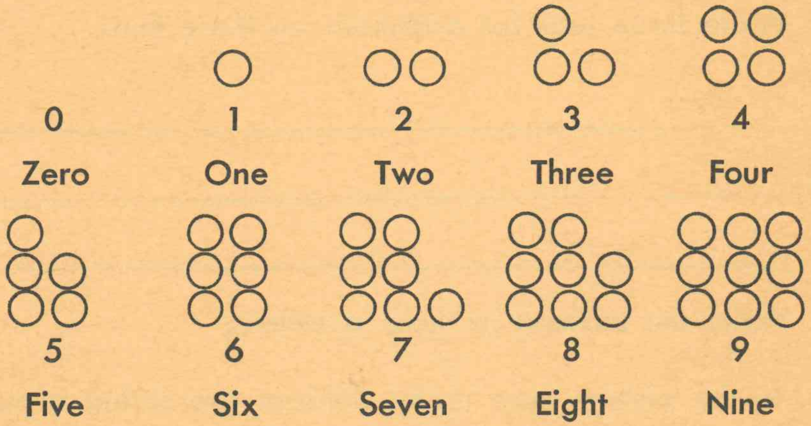
7. At what time does your school begin in the morning? __________

8. How many pages are in this book? __________

Writing Numbers

The number under each set of balls tells how many balls are in that set.

The word under each number is called the number name.



The figure 0 is called zero. It means not any, nothing, or none.

When we think of more than 9, we use two or more of the above figures. We use the figure 1 with the 0 to write 10.

Write the numbers from 1 to 10 on the lines below. Try to make the second, third, and fourth rows better than the first.

Addition Facts

Addition facts about the numbers two — three — four — five — six — seven

To add is to put together numbers, groups, or sets of things and find how many there are in all.

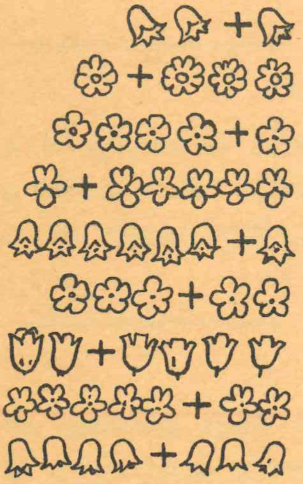
The sign + means and or plus.

The sign = means equals or are.

This is an addition sentence: 2 + 3 = 5.

The answer is called the sum.

Write the sums for these addition sentences.



2 + 1 = ___ 1 + 2 = ___

1 + 3 = ___ 3 + 1 = ___

4 + 1 = ___ 1 + 4 = ___

1 + 5 = ___ 5 + 1 = ___

6 + 1 = ___ 1 + 6 = ___

3 + 2 = ___ 2 + 3 = ___

2 + 4 = ___ 4 + 2 = ___

5 + 2 = ___ 2 + 5 = ___

4 + 3 = ___ 3 + 4 = ___

1 + 1 = ___ 2 + 2 = ___ 3 + 3 = ___

Put the missing numerals in these sentences.

2 + ___ = 3
___ + 6 = 7
1 + ___ = 2
___ + 2 = 6
2 + ___ = 6

___ + 4 = 5
5 + ___ = 6
___ + 2 = 4
2 + ___ = 5
3 + ___ = 6

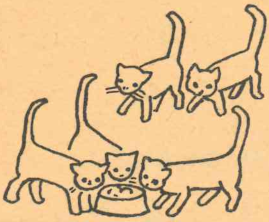
3 + ___ = 4
___ + 2 = 5
5 + ___ = 7
___ + 3 = 7
1 + ___ = 4

Putting Things Together

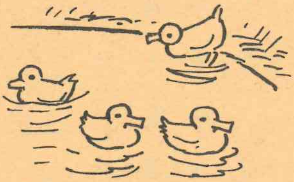
When you add, you put two or more groups together to make a larger group. The answer is called the sum.

This is an addition sentence: 4 + 2 = 6.

Solve these problems. Write the number sentences for the problems. If your textbook has a number line, use it to see if the sentences are true.

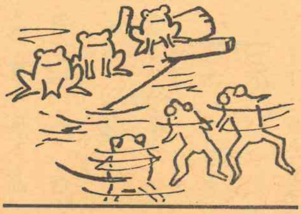


1. Jean saw 3 cats eating from a dish. She also saw 2 cats walking toward the 3 cats. How many cats did Jean see?



2. Joe saw 3 ducks swimming in a pool. He also saw 1 duck walking toward the pool. How many ducks did Joe see?

3. There were 4 dogs playing on the lawn. Three more dogs came to play. How many dogs were now playing?



4. Judy saw 3 frogs in the water. She also saw 3 more frogs sitting on a log in the pond. How many frogs did Judy see?

Subtraction Facts

Subtraction facts about the numbers two — three — four — five — six — seven

To subtract is to take away a number or group of things from a larger number or group of things.

The sign − means to take away, or subtract.

This is a subtraction sentence: 7 − 3 = 4.

The answer is called the difference or remainder.

Write the answers for these subtraction sentences. Circle the cones or blocks you take away.

△△ 2 − 1 = ____
△△△ 3 − 1 = ____
△△△ 3 − 2 = ____
△△△△ 4 − 1 = ____
△△△△ 4 − 2 = ____
△△△△ 4 − 3 = ____
△△△△△ 5 − 1 = ____
△△△△△ 5 − 2 = ____
△△△△△ 5 − 3 = ____
△△△△△ 5 − 4 = ____
△△△△△ 5 − 3 = ____

□□□□□□ 6 − 1 = ____
□□□□□□ 6 − 2 = ____
□□□□□□ 6 − 3 = ____
□□□□□□ 6 − 4 = ____
□□□□□□ 6 − 5 = ____
□□□□□□□ 7 − 1 = ____
□□□□□□□ 7 − 2 = ____
□□□□□□□ 7 − 3 = ____
□□□□□□□ 7 − 4 = ____
□□□□□□□ 7 − 5 = ____
□□□□□□□ 7 − 6 = ____

Put the missing numerals in these sentences.

3 − ____ = 1
____ − 3 = 1
7 − ____ = 5
____ − 3 = 2
6 − ____ = 1

____ − 2 = 2
6 − ____ = 4
____ − 2 = 3
7 − ____ = 3
____ − 5 = 2

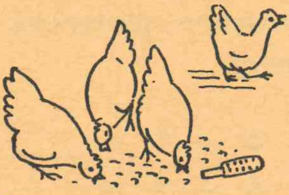
5 − ____ = 1
____ − 3 = 3
6 − ____ = 2
____ − 3 = 4
7 − ____ = 1

Take Away or Take From

When we take away or take from a group, we take the group apart or subtract. The answer is called the difference or remainder.

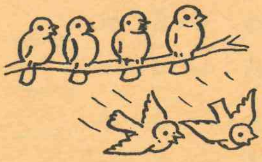
This is a subtraction sentence: 5 − 2 = 3.

Solve these problems. Write the number sentences for the problems. If your textbook has a number line, use it to see if the sentences are true.



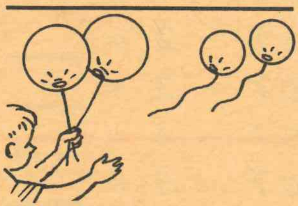
1. There were 4 chickens eating corn but one chicken walked away. How many chickens were left eating corn?

____



2. There were 6 birds on a tree. Two of the birds flew away. How many birds remained on the tree?

____



3. John had 4 balloons. Two balloons flew away. How many balloons were left?

____

4. Jane had 5 dolls standing in a row. Jane knocked 3 of them over. How many dolls remained standing?

____

5. Joe was watching 6 kittens playing in the yard. Four of them walked away. How many kittens were left?

____

Subtraction Facts

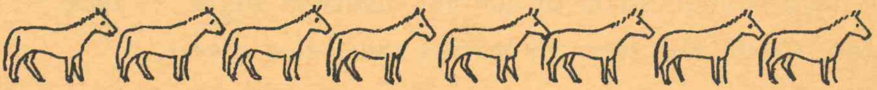
Subtraction facts about the numbers eight — nine — ten. Circle the stars or circles you take away.

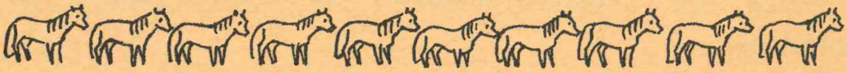
Write the missing numerals in these subtraction sentences.

○○○○ ○○○○	8 − 1 = ____	☆☆☆ ☆☆☆ ☆☆☆	9 − 6 = ____
○○○○ ○○○○	8 − 2 = ____	☆☆☆ ☆☆☆ ☆☆☆	9 − 8 = ____
○○○○ ○○○○	8 − 3 = ____	☆☆☆ ☆☆☆ ☆☆☆	9 − 7 = ____
○○○○ ○○○○	8 − 4 = ____	☆☆☆☆☆ ☆☆☆☆☆	10 − 1 = ____
○○○○ ○○○○	8 − 5 = ____	☆☆☆☆☆ ☆☆☆☆☆	10 − 2 = ____
○○○○ ○○○○	8 − 6 = ____	☆☆☆☆☆ ☆☆☆☆☆	10 − 3 = ____
○○○○ ○○○○	8 − 7 = ____	☆☆☆☆☆ ☆☆☆☆☆	10 − 4 = ____
○○○ ○○○ ○○○	9 − 1 = ____	☆☆☆☆☆ ☆☆☆☆☆	10 − 5 = ____
○○○ ○○○ ○○○	9 − 2 = ____	☆☆☆☆☆ ☆☆☆☆☆	10 − 6 = ____
○○○ ○○○ ○○○	9 − 3 = ____	☆☆☆☆☆ ☆☆☆☆☆	10 − 7 = ____
○○○ ○○○ ○○○	9 − 4 = ____	☆☆☆☆☆ ☆☆☆☆☆	10 − 8 = ____
○○○ ○○○ ○○○	9 − 5 = ____	☆☆☆☆☆ ☆☆☆☆☆	10 − 9 = ____

10	9	10	8	9	10	8	10
−2	−4	−3	−6	−5	−6	−3	−5
____	____	____	____	____	____	____	____

Horses and Ponies





Answer these questions.

1. How many horses are in the row above?

   ____

2. How many ponies are in the row above?

   ____

3. Are the horses larger than the ponies?

   ____

4. Are the ponies smaller than the horses?

   ____

5. How many more ponies are there than horses?

   ____

6. Are there fewer ponies than horses?

   ____

7. If 3 horses were taken away from the row of horses, how many horses would be left?

   ____

8. If 3 ponies were taken away from the row of ponies, how many ponies would be left?

   ____

9. If 6 horses were taken away from the row of horses, how many horses would be left?

   ____

10. If 9 ponies were taken away from the row of ponies, how many ponies would be left?

    ____

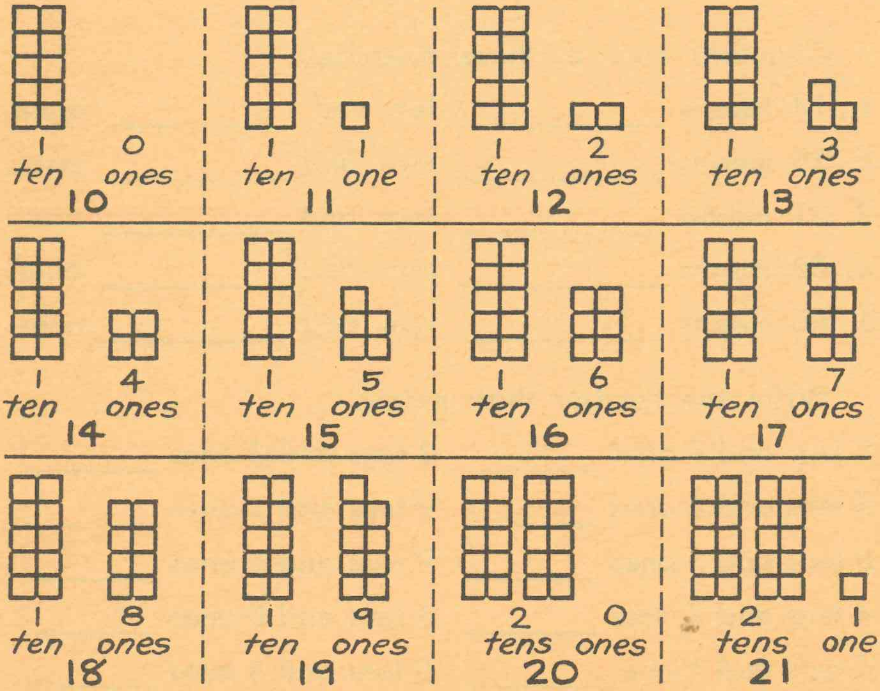
Numbers from 10 to 21

All the numbers beginning with 10 are written with 2 or more of the 10 figures.

The number ten is one more than nine. We write it 10. The zero tells us that there are no ones. The one written in front of the zero is one ten.

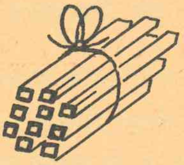
All our numbers are made with the figures 0, 1, 2, 3, 4, 5, 6, 7, 8, and 9. Each number given below has two figures. The blocks show what they mean. The large block is a ten. The small blocks are ones. There are ten ones in each ten. Study each number carefully. Read the numbers.

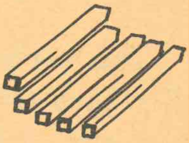
The drawings show the figure for the tens and the figure for the ones.



Using Tens and Ones

The number 15 has two figures. The figure 5 tells the number of ones. The figure 1 tells the number of tens.





Write the answers.

10	10	10	10	10	10	10	10	10
+1	+2	+3	+4	+5	+6	+7	+8	+9

9	8	7	6	5	4	3	2	1
+10	+10	+10	+10	+10	+10	+10	+10	+10

Complete each of these exercises.

1. 14 means ______ ten and ______ ones.
2. 25 means ______ tens and ______ ones.
3. 31 means ______ tens and ______ one.
4. 58 means ______ tens and ______ ones.
5. 66 means ______ tens and ______ ones.

Write the number that means:

1 ten and 9 ones ______
5 tens and 8 ones ______
8 tens and 5 ones ______
4 tens and 7 ones ______
6 tens and 1 one ______

2 tens and 3 ones ______
9 tens and 2 ones ______
7 tens and 6 ones ______
3 tens and 0 ones ______
5 tens and 4 ones ______

A Number Chart

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

1. What is the largest number on the chart? ________

2. How many numbers are on the chart? ________

3. What number is between 14 and 16? ________

Between 36 and 38? ________

4. What number comes before 76? ________

After 42? ________

5. Count by tens on the chart. Start with 10. Write these numbers on the lines.

____ ____ ____ ____ ____ ____ ____ ____ ____ ____

6. Is the number 40 nearer to 10 or to 100? ________

7. Place a circle around the larger number.

6 or 8   15 or 12   9 or 7   31 or 21   16 or 18

8. Place a circle around the smaller number.

3 or 5   20 or 10   15 or 18   29 or 19   11 or 21

Using the Number Chart

Look at the chart on page 21.

It will help you find the correct numbers.

Write the number that comes after each number.

14 ______ 19 ______ 32 ______ 29 ______

68 ______ 40 ______ 74 ______ 80 ______

53 ______ 87 ______ 99 ______ 16 ______

Look at the chart and write the number that means:

1 ten ______ 4 tens ______ 2 tens ______

3 tens ______ 6 tens ______ 5 tens ______

7 tens ______ 9 tens ______ 8 tens ______

Count by 5's to 100. Write the numbers on the lines.

____ ____ ____ ____ ____ ____ ____ ____ ____ ____

____ ____ ____ ____ ____ ____ ____ ____ ____ ____

Draw a circle around the larger number.

45 or 62 65 or 28 72 or 86 97 or 59

38 or 71 93 or 57 59 or 34 99 or 88

94 or 82 42 or 49 81 or 38 76 or 44

Number Facts about 12 and 13

□□□□□□ + □□□□□□ = _____ rectangles.

△△△△△△△△△△△△△ − △△△△ = _____ triangles.

Write the answers for these number facts. Watch the signs.

7 + 5 = ____ 8 + 4 = ____ 9 + 3 = ____

5 + 7 = ____ 4 + 8 = ____ 3 + 9 = ____

12 − 5 = ____ 12 − 4 = ____ 12 − 3 = ____

12 − 7 = ____ 12 − 8 = ____ 12 − 9 = ____

6	7	5	8	4	9	3
+6	+5	+7	+4	+8	+3	+9

12	12	12	12	12	12	12
−9	−7	−5	−4	−6	−8	−3

7 + 6 = ____ 8 + 5 = ____ 9 + 4 = ____

6 + 7 = ____ 5 + 8 = ____ 4 + 9 = ____

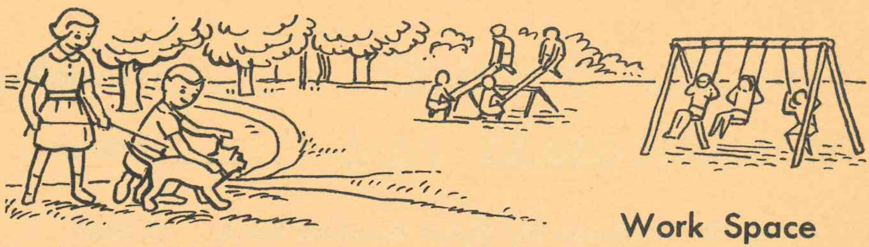
13 − 6 = ____ 13 − 8 = ____ 13 − 9 = ____

13 − 7 = ____ 13 − 5 = ____ 13 − 4 = ____

7	6	8	5	9	4
+6	+7	+5	+8	+4	+9

13	13	13	13	13	13
−4	−5	−6	−9	−7	−8

Fun at the Park



Work Space

1. Many children spend much time at the park. Today there were 7 girls and 5 boys playing on the seesaws. There were ____________ children playing on the seesaws.

2. Some boys were playing ball. There were 8 children standing on one side watching the game and 5 children standing on the other side. How many children were watching the game? ______________

3. Some children brought their pets to the park. There were 13 dogs and 4 kittens. The children brought __________ more dogs than kittens.

4. One little girl brought her family of dolls. She had 9 old dolls and 4 new ones. How many dolls were in her doll family? ______________

5. One boy brought his fleet of toy cars. He had 12 old cars and 5 new ones. He had ______________ more old cars than new ones.

6. Bob and Jim were walking through the park. They saw 9 robins and 3 cardinals. Together they saw ______ birds.

The Use of Zero

The figure 0 is called zero. Zero means not any or none.

The sum of zero and any number is the number itself.

$$\begin{array}{r} 7 \\ +0 \\ \hline 7 \end{array}$$

Any number minus zero is the number itself.

$$\begin{array}{r} 9 \\ -0 \\ \hline 9 \end{array}$$

Any number minus itself is zero.

$$\begin{array}{r} 4 \\ -4 \\ \hline 0 \end{array}$$

Write the answers. Watch the signs.

$$\begin{array}{rrrrrr} 2 & 4 & 0 & 3 & 7 & 1 \\ +0 & -0 & +5 & -3 & -0 & +0 \\ \hline \end{array}$$

$$\begin{array}{rrrrrr} 1 & 4 & 0 & 3 & 4 & 1 \\ 0 & 2 & 1 & 0 & 1 & 0 \\ 2 & 0 & 6 & 5 & 0 & 5 \\ \hline \end{array}$$

Write the missing numerals in these number sentences.

1 − ____ = 1
0 + 7 = ____
1 + ____ = 1
6 + __ + 2 = 8
4 + 2 + __ = 6
1 + 0 + 2 = __
0 + 6 + 1 = __

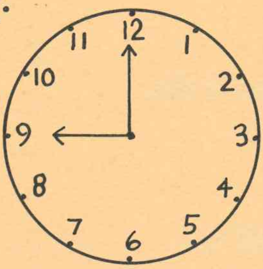
2 − 0 = ____
5 − ____ = 5
4 − ____ = 0
__ + 0 + 3 = 5
2 + __ + 0 = 9
3 + 2 + 0 = __
8 + 1 + 0 = __

4 + ____ = 4
1 − 1 = ____
____ + 8 = 8
3 + 0 + __ = 7
__ + 3 + 3 = 6
2 + 0 + 1 = __
6 + 0 + 3 = __

Time

There are 24 hours in a day.

There are 60 minutes in 1 hour. There are 15 minutes in 1 quarter hour.

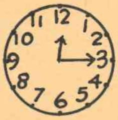


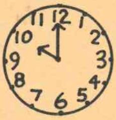
This clock tells us it is 9 o'clock.

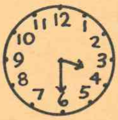
The short hand tells us the ____________________.

The long hand tells us the ____________________.

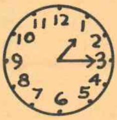
Write the time that each clock tells:

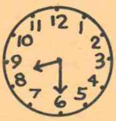


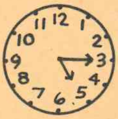




____________ ____________ ____________







____________ ____________ ____________

These three clocks have no hands. Draw the hands on the first clock to tell the time when you get up, the second clock to tell the time when you go to school, and the third clock to tell the time when school is dismissed.

____________ ____________ ____________

Addition and Subtraction

Write the answers. Watch the signs.

$$\begin{array}{rrrrrr} 7 & 9 & 2 & 5 & 10 & 11 \\ +2 & -3 & +8 & +4 & -4 & -3 \\ \hline \end{array}$$

$$\begin{array}{rrrrrr} 10 & 6 & 9 & 11 & 6 & 4 \\ -5 & +3 & -4 & -8 & +4 & +7 \\ \hline \end{array}$$

$$\begin{array}{rrrrrr} 7 & 9 & 9 & 10 & 13 & 1 \\ +3 & -6 & +2 & -7 & -5 & +10 \\ \hline \end{array}$$

$$\begin{array}{rrrrrr} 12 & 6 & 11 & 7 & 12 & 9 \\ -3 & +5 & -4 & +5 & -5 & +3 \\ \hline \end{array}$$

$$\begin{array}{rrrrrr} 9 & 13 & 13 & 5 & 6 & 12 \\ +4 & -4 & -6 & +8 & +7 & -7 \\ \hline \end{array}$$

Write the answers on the lines. Watch the signs.

8 + 3 = ____
10 − 2 = ____
5 + 4 = ____
11 − 2 = ____
7 + 3 = ____
10 − 3 = ____
9 − 4 = ____
7 + 4 = ____
6 + 5 = ____
11 − 6 = ____

8 − 4 = ____
6 + 7 = ____
9 + 3 = ____
8 − 5 = ____
8 + 4 = ____
9 − 3 = ____
6 + 4 = ____
3 + 7 = ____
11 − 5 = ____
10 − 7 = ____

9 − 2 = ____
7 + 2 = ____
6 + 3 = ____
8 − 6 = ____
2 + 8 = ____
12 − 9 = ____
13 − 5 = ____
8 + 5 = ____
12 − 4 = ____
10 + 3 = ____

Problems

Write the number sentences for these problems in the work space.

Work Space

1. Joe had 6 books before his birthday. His grandfather gave him 5 more books on his birthday. How many books did Joe have then? __________

2. Patty had 10 pieces of candy when she started for school. She gave 4 pieces to Helen on the way to school. Did Patty have 6 or 7 pieces left? __________

3. Nan had a valentine party. She made 3 of the valentines herself and bought 9 valentines at the store. Nan had __________ valentines to give to her friends at the party.

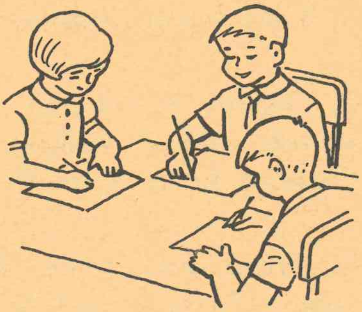
4. Mrs. Gross had 11 eggs in her refrigerator. She used 7 of them to bake a cake. How many eggs did she have left? __________

5. Roy read 3 storybooks during the month of July and 7 storybooks during the month of August. Roy read __________ storybooks during July and August.

6. Mabel bought 12 roses for her mother. Five of the roses were red and the rest were white. How many roses were white? __________

7. Ruth is 9 years old. Her sister is 4 years older. How old is Ruth's sister? __________

Adding Three Numbers



Reminder: Always start with the top number of each column and add down. To check your answer start with the bottom number of each column and add up.

Add and check.

1	4	3	2	4	3
6	1	3	1	4	2
2	3	2	4	2	1

3	2	4	6	5	4
3	3	3	2	1	2
3	4	5	3	7	5

4	5	4	6	4	2
4	3	7	4	3	3
3	2	1	2	3	2

5	3	5	3	5	5
1	2	2	4	3	2
4	3	3	4	4	3

Write the missing numerals in these number sentences.

2 + ___ + 1 = 4
3 + 2 + 5 = ___
2 + 3 + ___ = 11
3 + ___ + 1 = 9
6 + 2 + ___ = 10

7 + 3 + 1 = ___
2 + 2 + ___ = 12
5 + ___ + 2 = 8
___ + 4 + 4 = 13
2 + 3 + ___ = 9

___ + 3 + 1 = 10
2 + ___ + 1 = 6
2 + 3 + 7 = ___
4 + 5 + ___ = 10
4 + 4 + 3 = ___

Problems with Three Numbers

Solve these problems. Write the answers on the lines.

Work Space

1. George has 4 blue pencils, 2 red pencils, and 3 yellow pencils. Does George have 8 or 9 pencils?

____

2. Frank has three shelves in his room. On one shelf he has 2 model airplanes, on another 5, and on a third 3. Frank has a total of________ model airplanes.

3. Diane bought candy at the corner grocery store. She bought 3 cents worth of candy corn, 2 cents worth of jelly beans, and 5 cents worth of candy hearts. Diane paid ________ cents for all of the candy.

4. Norma saw 2 butterflies on one flower, 3 butterflies on another, and 4 butterflies on a third flower. Norma saw ____________ butterflies on the flowers.

5. Jane gave 2 apples to June, 3 apples to Lois, and 5 apples to Ruth. Did the girls have 10 or 12 apples?

____

6. Harry had 3 balls; John had 4 balls; and Joe had 2 balls. The three boys had ________ balls.

7. Alice and two friends had a doll party. Alice had 4 dolls. Nancy brought 3 dolls, and Louise brought 2 dolls. The three girls had ________ dolls at the party.

Number Facts about 14 and 15

7 baseballs + 7 baseballs = ______ baseballs.
14 baseballs − 7 baseballs = ______ baseballs.
8 footballs + 7 footballs = ______ footballs.
15 footballs − 7 footballs = ______ footballs.

Write the answers.

9 + 5 = ___   8 + 6 = ___   8 + 7 = ___   9 + 6 = ___
5 + 9 = ___   6 + 8 = ___   7 + 8 = ___   6 + 9 = ___
14 − 5 = ___   14 − 6 = ___   15 − 7 = ___   15 − 6 = ___
14 − 9 = ___   14 − 8 = ___   15 − 8 = ___   15 − 9 = ___
7 + 7 = ___   14 − 7 = ___

8	6	9	5	7
+6	+8	+5	+9	+7

14	14	14	14	14
−6	−8	−5	−9	−7

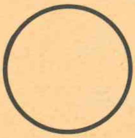
7	8	15	15	6	9	15	15
+8	+7	−7	−8	+9	+6	−6	−9

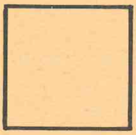
Write the missing numerals in these number sentences.

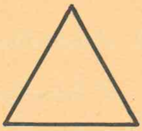
5 + ___ = 14   6 + ___ = 14   7 + ___ = 14
14 − ___ = 9   14 − ___ = 8   14 − ___ = 7
7 + ___ = 15   6 + ___ = 15   8 + ___ = 15
15 − ___ = 8   15 − ___ = 9   15 − ___ = 7
9 + ___ = 14   8 + ___ = 14   9 + ___ = 15
14 − ___ = 5   14 − ___ = 6   15 − ___ = 6
___ + 8 = 14   ___ + 7 = 15   ___ + 6 = 14

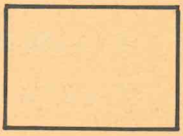
Learning about Shapes

Here are four shapes. Learn the name under each shape.


Circle


Square


Triangle


Rectangle

1. Write the names of the shapes given above.

____________ ____________ ____________ ____________

2. How many sides has a square? ________________

A rectangle? ________________

3. Are all the sides of the square the same length?

____

4. Are all the sides of the rectangle the same length?

____

5. How many sides has a triangle? ________________

6. How many corners has a square? ________________

A rectangle? ________ A triangle? ____________

7. Does a circle have corners? ________________

8. How are a square and a rectangle alike?

____

How are they different?

____

9. This page is shaped like a ________________.

10. A penny is shaped like a ________________.

Number Facts about 16, 17, and 18

9 basketballs + 7 basketballs = ____ basketballs.

16 basketballs − 7 basketballs = ____ basketballs.

9 volleyballs + 8 volleyballs = ____ volleyballs.

17 volleyballs − 8 volleyballs = ____ volleyballs.

9 softballs + 9 softballs = ____ softballs.

18 softballs − 9 softballs = ____ softballs.

Write the answers.

9 + 7 = ____

7 + 9 = ____

16 − 9 = ____

16 − 7 = ____

8 + 8 = ____

16 − 8 = ____

9 + 8 = ____

8 + 9 = ____

9 + 9 = ____

18 − 9 = ____

17 − 8 = ____

17 − 9 = ____

9	7	8	9	8	9
+7	+9	+8	+8	+9	+9

16	16	16	17	17	18
−9	−7	−8	−8	−9	−9

Write the missing numerals in these number sentences.

7 + ___ = 16

9 + ___ = 16

16 − ___ = 9

16 − ___ = 7

___ + 8 = 16

___ − 8 = 7

___ + 9 = 17

___ − 8 = 9

9 + ___ = 17

8 + ___ = 17

17 − ___ = 9

17 − ___ = 8

___ + 9 = 16

___ − 7 = 9

___ + 8 = 17

___ − 9 = 7

8 + ___ = 16

16 − ___ = 8

___ + 9 = 17

___ − 9 = 8

___ + 8 = 16

___ − 8 = 8

___ + 7 = 16

___ + 9 = 18

___ − 9 = 8

___ − 9 = 9

Problems

Write the number sentences for these problems in the work space.

Work Space

1. Donald sold 8 Saturday Evening Posts on Monday and 7 on Tuesday. He sold ________________ Posts on both days.

2. Dick and Harry were playing a game of ringtoss. Dick made a score of 6 on the first throw and 9 on the second throw. Dick's total score was __________.

3. Harold had 16 cents. He bought a top for 9 cents. Did he have 6 or 7 cents left? ________________

4. Sue had 17 cents. She paid 9 cents for ribbon for a doll dress. Sue had __________ cents left.

5. Ray needed some money to buy a box of paints. His father gave him 8 cents and his mother gave him 6 cents. Ray had ________________ cents in all.

6. Ralph bought a notebook for 15 cents and a pen for 8 cents. How much more did the notebook cost than the pen? ________________

7. A teacher sold 9 bottles of milk one day and 8 the next day. Did the teacher sell 17 or 19 bottles of milk? ________________

8. George bought 18 marbles. He gave his brother 9 of them. George had __________ marbles left.

Subtracting Two-Place Numbers

$$\begin{array}{rcll} 69 & = & 6 \text{ tens} & 9 \text{ ones} \\ -44 & = & 4 \text{ tens} & 4 \text{ ones} \\ \hline 25 & = & 2 \text{ tens} & 5 \text{ ones} \end{array}$$

or

$20 + 5 = 25$

Subtract the ones first.
$9 - 4 = 5$.
Subtract the tens next.
$6 - 4 = 2$.

Write the subtraction sentence. ____________________

Put in the missing numbers. Write the remainders.

$$\begin{array}{rcll} 68 & = & \quad \text{ tens} & \quad \text{ ones} \\ -25 & = & \quad \text{ tens} & \quad \text{ ones} \\ \hline \end{array} \qquad \begin{array}{rcll} 79 & = & \quad \text{ tens} & \quad \text{ ones} \\ -43 & = & \quad \text{ tens} & \quad \text{ ones} \\ \hline \end{array}$$

$$\begin{array}{rc} 37 & = \\ -14 & = \\ \hline \end{array} \qquad \begin{array}{rc} 56 & = \\ -32 & = \\ \hline \end{array}$$

Write two examples. Find the remainders.

Write the remainders for these examples.

$$\begin{array}{rrrrr} 26 & 74 & 68 & 49 & 38 \\ 21 & 61 & 57 & 16 & 26 \\ \hline \end{array}$$

$$\begin{array}{rrrrr} 78 & 86 & 63 & 56 & 47 \\ 34 & 33 & 31 & 35 & 24 \\ \hline \end{array}$$

$$\begin{array}{rrrrr} 69 & 75 & 99 & 87 & 99 \\ 27 & 12 & 45 & 22 & 34 \\ \hline \end{array}$$

Subtraction Problems

Work Space

1. Fred had 69 stamps in his album. Dick had 44 stamps in his album. How many more stamps did Fred have than Dick? ________________

2. Jim had 58 United States stamps. He gave 23 of them away. How many stamps did Jim have left?

____

3. Fred spent 59 cents for stamps one day, and 42 cents for stamps the next day. How much more money did he spend the first day than the second? ________________

4. Jane had 87 red stamps and 37 blue stamps. How many more red than blue stamps did Jane have?

____

5. Jim's father is 68 inches tall. Jim is 55 inches tall. What is the difference in their heights? ____________

6. Frank weighs 79 pounds and Dick weighs 66 pounds. What is the difference in their weights?

____

Write the remainders for these sentences.

75 − 31 = ____
56 − 45 = ____
24 − 11 = ____
76 − 52 = ____
69 − 63 = ____

86 − 22 = ____
38 − 26 = ____
69 − 48 = ____
87 − 43 = ____
79 − 37 = ____

78 − 42 = ____
47 − 24 = ____
99 − 67 = ____
68 − 45 = ____
85 − 34 = ____

Addition and Subtraction with Zeros

$$\begin{array}{r} 36 \\ \underline{80} \\ 116 \end{array}$$

Add the ones first. $6 + 0 = 6$.
Add the tens next. $3 + 8 = 11$.
The sum is 116.

$$\begin{array}{r} 47 \\ \underline{40} \\ 7 \end{array}$$

Subtract the ones first. $7 - 0 = 7$.
Subtract the tens next. $4 - 4 = 0$.
The difference is 7.

Add.

$$\begin{array}{rrrrrr} 54 & 26 & 73 & 40 & 86 & 50 \\ \underline{30} & \underline{20} & \underline{40} & \underline{16} & \underline{60} & \underline{15} \end{array}$$

$$\begin{array}{rrrrrr} 24 & 30 & 40 & 73 & 35 & 70 \\ \underline{30} & \underline{74} & \underline{83} & \underline{10} & \underline{50} & \underline{75} \end{array}$$

10 + 10 = ____ 20 + 10 = ____ 20 + 30 = ____
40 + 20 = ____ 50 + 30 = ____ 50 + 10 = ____
30 + 40 = ____ 60 + 20 = ____ 70 + 10 = ____
43 + 50 = ____ 50 + 67 = ____ 85 + 40 = ____
24 + 90 = ____ 90 + 44 = ____ 30 + 78 = ____

Subtract.

$$\begin{array}{rrrrrr} 28 & 37 & 76 & 89 & 65 & 99 \\ \underline{10} & \underline{33} & \underline{26} & \underline{39} & \underline{62} & \underline{99} \end{array}$$

$$\begin{array}{rrrrrr} 46 & 65 & 98 & 56 & 49 & 75 \\ \underline{20} & \underline{63} & \underline{68} & \underline{36} & \underline{45} & \underline{25} \end{array}$$

20 − 10 = ____ 30 − 20 = ____ 50 − 30 = ____
70 − 40 = ____ 90 − 60 = ____ 80 − 50 = ____
60 − 50 = ____ 40 − 30 = ____ 90 − 70 = ____
54 − 20 = ____ 38 − 30 = ____ 64 − 34 = ____
47 − 20 = ____ 85 − 60 = ____ 96 − 70 = ____

Problems with Zeros

Write the number sentences for these problems in the work space.

Work Space

1. Ruth and Mae were playing on a sliding board at school. Ruth had 15 turns and Mae had 10 turns. How many turns did they have together? ____________

2. Fred has 25¢. He wants to buy a kite that costs 20¢. How much will he have left? ____________

3. Kay and Ray jumped rope. Kay jumped 42 times, and Ray jumped 30 times. Together they jumped ________ times.

4. Joe and Jan bounced a ball. Joe bounced the ball 36 times without dropping it. Jan bounced the ball 60 times. How many times was the ball bounced? ____________

5. John bought an airplane for 99¢ and a truck for 95¢. The airplane cost ____________ more than the truck.

6. Pat had 19¢. He bought a bag of marbles for 10¢. How much money had he left? ____________

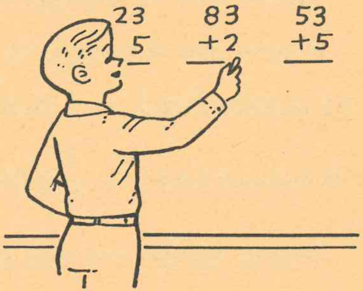
7. Jim and Don practiced batting. Jim batted the ball 20 times, and Don batted the ball 16 times. How many times did they bat the ball all together? ____________

8. Joe bought a ball for 70¢ and a bat for 79¢. How much more did the bat cost than the ball?

____

Adding by Endings

Remember: Add the ones first, and then the tens in each problem.



Write the answers to these problems. The endings will help you.

Add.

2	12	22	32	42	52	62
3	3	3	3	3	3	3

4	14	24	34	44	54	64
2	2	2	2	2	2	2

3	13	23	33	43	53	63
5	5	5	5	5	5	5

Add these numbers. Watch the endings.

32	44	83	45	65	12
7	5	2	4	3	6

33	54	76	22	85	31
5	2	1	6	3	7

252	366	451	774	523	892
6	3	8	4	5	7

Pounds and Ounces

There are 16 ounces in 1 pound.

There are 8 ounces in one-half pound.

16 ounces (oz.) = 1 pound (lb.) 1 lb. = ______ oz.

8 ounces (oz.) = $\frac{1}{2}$ pound (lb.) $\frac{1}{2}$ lb. = ______ oz.

Many things we eat are bought by the pound.

Circle each thing that is bought by the pound.

cheese pencils meat oranges coffee

Name 3 other things you can buy by the pound.

____________ ____________ ____________

Name 4 places where scales are used.

1. ____________ 2. ____________

3. ____________ 4. ____________

Tell whether these statements are right or wrong. Write the correct answer on the second line.

Work Space

1. Jack weighs 53 pounds and Bob weighs 59 pounds. Jack weighs 7 pounds less than Bob.

____________ ____________

2. Dick weighed two bags of tomatoes. One bag weighed 9 pounds and the other weighed 3 pounds. The one bag weighed 6 pounds more than the other.

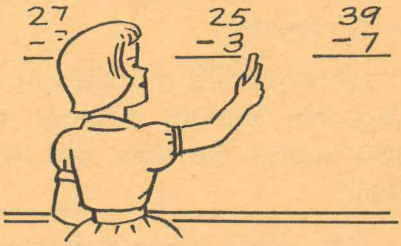
____________ ____________

3. Sue weighs 58 pounds. Mary weighs 5 pounds less than Sue. Mary weighs 51 pounds.

____________ ____________

Subtracting by Endings

Remember: Subtract the ones first, and then the tens in each problem.



Write the differences. The endings will help you.

$$\begin{array}{rrrrrr} 5 & 15 & 25 & 35 & 45 & 55 \\ -3 & -3 & -3 & -3 & -3 & -3 \\ \hline \end{array}$$

$$\begin{array}{rrrrrr} 7 & 17 & 27 & 37 & 47 & 57 \\ -4 & -4 & -4 & -4 & -4 & -4 \\ \hline \end{array}$$

$$\begin{array}{rrrrrr} 9 & 19 & 29 & 39 & 49 & 59 \\ -5 & -5 & -5 & -5 & -5 & -5 \\ \hline \end{array}$$

Subtract these numbers. Watch the endings.

$$\begin{array}{rrrrrr} 85 & 48 & 77 & 39 & 25 & 68 \\ 3 & 2 & 5 & 7 & 4 & 1 \\ \hline \end{array}$$

$$\begin{array}{rrrrrr} 79 & 86 & 28 & 84 & 29 & 47 \\ 4 & 2 & 5 & 3 & 6 & 1 \\ \hline \end{array}$$

$$\begin{array}{rrrrrr} 258 & 437 & 549 & 387 & 968 & 798 \\ 6 & 7 & 5 & 2 & 4 & 3 \\ \hline \end{array}$$

Problems

Write the number sentence for each problem in the work space.

Work Space

1. John had 22 marbles in his marble bag. He bought 6 more from Dick. How many marbles did John have then? ____________

2. Mrs. Ness bought a coat for $38 and a hat for $6. How much more did the coat cost than the hat?

____

3. George sold 24 newspapers one day and 5 more the next day. He sold ________ newspapers on both days.

4. Grace bought a box of candy for 39 cents and a package of gum for 5 cents. How much more did the candy cost than the gum?

____

5. There were 31 pupils enrolled the first week of school. The second week 4 more pupils enrolled. Were there 35 or 36 pupils enrolled at the end of the second week? ____________

6. Ethel worked 26 arithmetic problems during the arithmetic period. She worked 5 more problems than Edna. Edna worked ____________ problems.

7. On a fishing trip with his father Ray caught 12 fish. His father caught 7 more than Ray did. How many fish did his father catch? ____________

Adding Three-Place Numbers

		hundreds	tens	ones
252	=	2	5	2
423	=	4	2	3
222	=	2	2	2
897	=	8	9	7

Add the ones.
2 + 3 + 2 = 7.
Add the tens.
5 + 2 + 2 = 9.
Add the hundreds.
2 + 4 + 2 = 8.

Write the addition sentence for the example.

____

Put the missing numbers in each example. Write the sums.

		hundreds	tens	ones
261	=			
317	=			
421	=			
123	=			
451	=			
212	=			

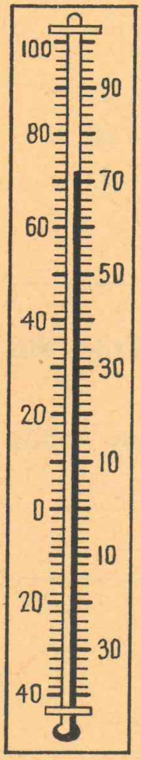
		hundreds	tens	ones
343	=			
314	=			
242	=			
312	=			
156	=			
311	=			

Write the sums for these examples.

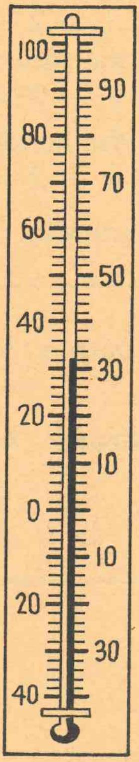
201 364 113	338 250 301	232 664 102	341 224 414	210 304 175
402 103 464	325 350 11	842 104 43	106 363 420	620 103 275
400 16 351	625 13 240	450 108 20	63 114 202	508 220 270

Temperature

A.



B.



1. The thermometer tells us how warm or cold it is. When we read it, we read temperature.

2. Temperature is measured by degrees°.

3. The freezing point for water on the thermometer is 32°.

4. What happens to the liquid in a thermometer when the temperature in a room rises? ________________

When the temperature drops? ________________

5. Which thermometer shows at what reading water will freeze? ________

6. Find 100° on the thermometer. Put an x on it.

7. Find 0° on the thermometer. Put an x on it.

8. A good temperature for a classroom is 68° to 72°.

9. What is the temperature in your classroom? ________

10. Put a thermometer outside your schoolroom window for a week. Read the temperature each day, then write it in your notebook or on a piece of paper.

11. Below are the temperature readings of a classroom. The room is too cold or too warm at certain times. Fill in the chart below to show how many degrees the room is too cold or too warm at the given time.

Time	Temperature	Too Cold	Too Warm
8:30	65°		
10:00	66°		
12:00	70°		
1:30	76°		
3:00	80°		

Adding and Subtracting Hundreds

$$\begin{array}{rclll} 243 & = & 2\text{ hundreds} & 4\text{ tens} & 3\text{ ones} \\ +654 & = & 6\text{ hundreds} & 5\text{ tens} & 4\text{ ones} \\ \hline 897 & = & 8\text{ hundreds} & 9\text{ tens} & 7\text{ ones} \end{array}$$

Add these examples.

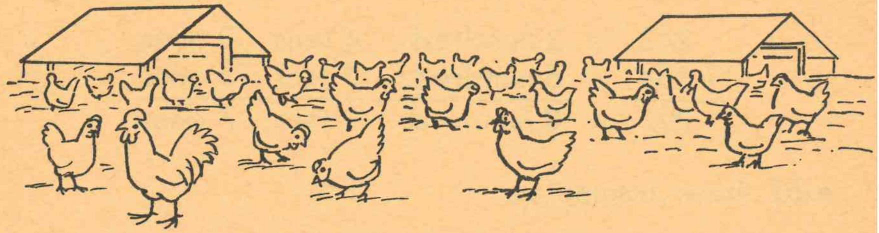
253	872	362	462	756
143	114	225	236	233
453	621	541	425	523
125	133	456	372	174
411	810	605	700	400
420	146	260	254	500

$$\begin{array}{rclll} 645 & = & 6\text{ hundreds} & 4\text{ tens} & 5\text{ ones} \\ -324 & = & 3\text{ hundreds} & 2\text{ tens} & 4\text{ ones} \\ \hline 321 & = & 3\text{ hundreds} & 2\text{ tens} & 1\text{ one} \end{array}$$

Subtract these examples.

745	586	673	465	657
625	452	542	261	135
864	965	787	547	429
341	432	372	313	219
941	883	728	330	655
501	540	224	120	300

A Chicken Farm



Work Space

1. Mr. Glase has a chicken farm. He has 287 white hens and 153 brown ones. How many more white hens than brown ones does Mr. Glase have? ________________

2. Mr. Glase has 875 chicks. They were hatched on two different days. The first day 423 chicks were hatched. ______________ chicks were hatched on the second day.

3. Mr. Glase gathered 396 eggs in two days. He gathered 186 eggs the first day. How many eggs did he gather the second day? __________

4. There were 245 pounds of feed in the chicken house. One bag of feed had 125 pounds in it. The other bag had _____________ pounds of feed in it.

5. At the end of the summer, Mr. Glase had 465 chickens. He sold 250 to a neighbor. How many chickens did he have left? ______________

6. Mr. Glase had 368 bushels of corn in one crib and 252 bushels in another crib. How many more bushels of corn did he have in the one crib than the other? ________________

Practice

Add.

253 342	432 245	647 302	544 335	728 150
431 124 234	345 433 201	224 343 120	542 225 121	143 321 525

Subtract.

456 234	677 345	326 122	548 238	768 613
645 503	869 539	728 310	948 447	768 260

Write the missing numerals in these number sentences.

4 + ___ = 11
___ − 3 = 7
10 + ___ = 17
13 − ___ = 8
5 + ___ = 13
6 − ___ = 6

___ − 4 = 12
___ + 5 = 14
15 − ___ = 6
___ + 6 = 15
9 − ___ = 9
9 + 9 = ___

11 + 4 = ___
10 − ___ = 7
8 + ___ = 16
___ − 7 = 7
9 + 6 = ___
7 − ___ = 0

4 + 2 + ___ = 9
3 + 5 + ___ = 8

United States Money

These coins are used in United States money.

penny
1¢

nickel
5¢

dime
10¢

quarter
25¢

half dollar
50¢

dollar
100¢

The sign ¢ means cent or cents. It is always written after the number, as 9¢.

The sign $ means dollar or dollars. It is always written in front of the number, as $1.00.

Write the names of the coins.

5 cents = 1 nickel

10 cents = ________

25 cents = ________

50 cents = ________

100 cents = ________

2 nickels = ________

5 nickels = ________

2 quarters = ________

4 quarters = ________

2 half dollars = ________

Draw lines between the same meanings.

5¢	nickel	ten cents
25¢	dime	five cents
10¢	quarter	one hundred cents
100¢	half dollar	twenty-five cents
50¢	dollar	fifty cents

Adding Three and Four Numbers

Add: Think,
add down

4
8–12
6–18
18

4–18
8–14
6

Check: Think,
add up

Add: Think,
add down

5
7–12
3–15
6–21
21

5–21
7–16
3– 9
6

Check: Think,
add up

Add and check.

6	7	2	3	5	4
5	2	8	7	3	9
3	8	2	4	5	5

8	9	6	4	8	7
3	2	4	9	4	5
6	1	5	6	7	8

6	3	2	1	4	3
1	1	4	5	4	5
4	5	3	6	2	5
1	2	3	2	7	1

2	8	9	7	4	3
2	4	2	7	5	7
2	6	5	4	5	6
8	6	7	8	5	8

3	4	7	5	8	6
3	3	6	6	2	6
6	7	9	9	2	7
8	7	3	2	4	8

A Trip to the Woods

Jack, Dick, John, and Joe made a trip to the woods. They saw 4 squirrels, 3 rabbits, 2 woodchucks, and 5 chipmunks. How many animals did they see? ____________

4 animals Begin to add at the top of the
3 animals column. Say 4 and 3 = 7, and 2 = 9,
2 animals and 5 = 14.
5 animals
14 animals The boys saw 14 animals.

Work Space

1. The boys found 4 chestnut trees, 8 walnut trees, 7 hickory nut trees, and 5 butternut trees. How many nut trees did they find in the woods? ____________________

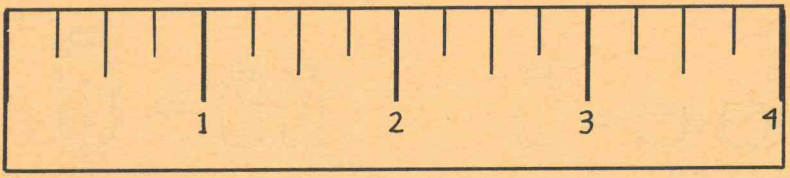
4 trees
8 trees
7 trees
5 trees
trees

2. They gathered 4 bags of walnuts, 3 bags of chestnuts, 4 bags of butternuts, and 5 bags of hickory nuts. How many bags of nuts did they gather? ____________________

3. On the way to the woods, the boys saw some birds. They saw 4 robins, 6 cardinals, 5 pheasants, and 3 starlings. How many birds did they see? ____________________

4. For science class the boys collected 8 maple leaves, 9 oak leaves, 7 dogwood leaves, and 5 elm leaves. How many leaves were collected by the boys? ____________________

Measures of Length



This ruler is only 4 inches long. A full-sized foot ruler is 12 inches long. Each inch is divided into 4 parts.

1. Find one inch on the ruler.

2. Find the line which divides the inch into two equal parts. Each part is $\frac{1}{2}$ inch long.

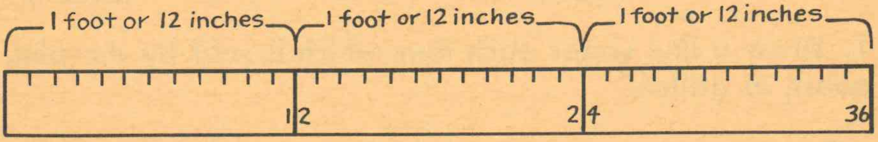
3. Find the line which divides the inch into four equal parts. Each part is $\frac{1}{4}$ inch long.

How many $\frac{1}{2}$ inches are there in one inch? __________

How many $\frac{1}{4}$ inches are there in one inch? __________

12 inches (in.) = 1 foot (ft.)
3 feet (ft.) = 1 yard (yd.)
36 inches (in.) = 1 yard (yd.)

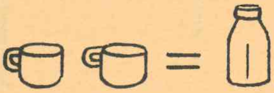
This is a picture of a yardstick.



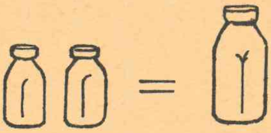
A yardstick is divided into 3 parts. Each part is 1 foot or 12 inches long. There are 3 feet or 36 inches in a yard.

1. How many inches are there in 1 foot? __________
2. How many inches are there in 1 yard? __________
3. How many feet are there in 1 yard? __________
4. One foot is what part of 1 yard? __________

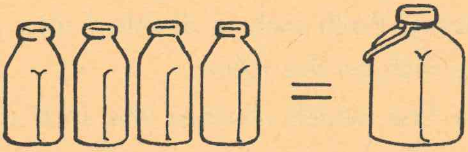
Liquid Measures



2 cups (c.) = 1 pint (pt.)



2 pints (pt.) = 1 quart (qt.)



4 quarts (qt.) = 1 gallon (gal.)

Write the answers on the lines.

1 pt. = ____ c.

1 qt. = ____ pt.

1 gal. = ____ qt.

2 pt. = ____ qt.

4 qt. = ____ gal.

2 c. = ____ pt.

Add.

4 qt.	8 gal.	6 pt.	7 qt.	5 c.
6 qt.	6 gal.	9 pt.	5 qt.	9 c.
____	____	____	____	____

2 pt. + 3 pt. = ____ pt.

9 qt. + 7 qt. = ____ qt.

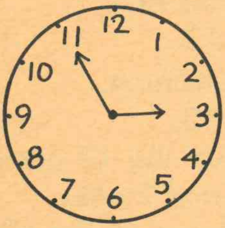
1. Draw a line under each item which is sold by the pint, quart, or gallon.

milk
butter
sugar
cocoa
gasoline
oil
cheese
ice cream

2. Mother bought 4 quarts of milk today and 3 quarts yesterday. How much milk did she buy? ____________

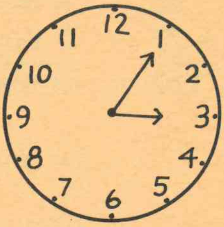
3. The children had 1 gallon of orange juice for their party. How many quarts did they have? ____________

Telling Time



The long hand on a clock is the minute hand.

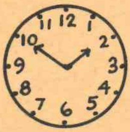
The short hand is the hour hand.

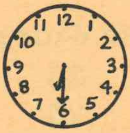


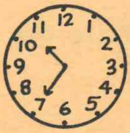
The time on this clock is 5 minutes before 3.

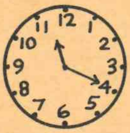
The time on this clock is 5 minutes after 3.

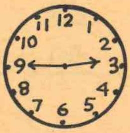
Write the time on the line below each clock.

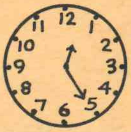






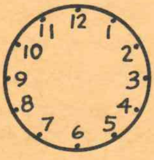




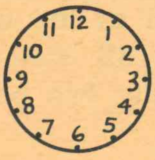


Draw the hands on each clock to show the time written above the clock.

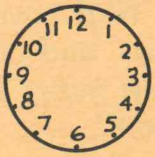
1:15



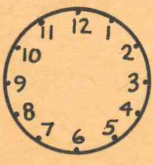
3:45



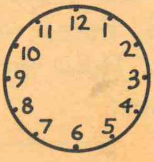
10:00



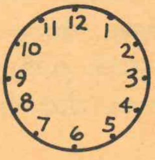
3:10



2:30



8:20



Addition with Carrying

65 = 6 tens 5 ones
+77 = 7 tens 7 ones
142 = 13 tens 12 ones
or
14 tens 2 ones
or
140 + 2 = 142

Add the ones first.
5 + 7 = 12.
Add the tens next.
6 + 7 = 13.
You regroup the 12 ones into 1 ten and 2 ones.
Add the 1 ten to the 13 tens.

Put the missing numbers in each example. Write the sums.

49 = tens ones
23 = tens ones

67 = tens ones
26 = tens ones

Write the sums for these examples.

36	43	38	26	53
58	29	25	59	27
37	42	65	86	98
19	28	46	54	35

Solve these problems.

Work Space
16 girls
+14 boys
children

1. There were 14 boys and 16 girls at a party. How many children were at the party?

2. Ned counted 25 men at the airport and Joe counted 38 women. How many people did the two boys count?

3. June and Grace were jumping rope. June jumped 28 times and Grace jumped 36 times. How many times did both girls jump?

Regrouping in Addition

46 = 4 tens 6 ones
67 = 6 tens 7 ones
38 = 3 tens 8 ones
151 = 13 tens 21 ones
or
15 tens 1 one
or
150 + 1 = 151

Add the ones first.
6 + 7 + 8 = 21.
Add the tens next.
4 + 6 + 3 = 13.
Regroup the 21 ones into 2 tens and 1 one.
Add the 2 tens to the 13 tens.

Put the missing numbers in each example. Write the sums.

24 = tens ones
65 = tens ones
37 = tens ones

74 = tens ones
23 = tens ones
35 = tens ones

38 =
26 =
87 =

53 =
36 =
24 =

Write the sums for these examples.

96	22	38	36	82
18	47	24	43	36
22	48	67	57	27

42	38	61	24	86
65	43	26	57	34
15	54	49	97	25

46	31	76	93	54
28	34	22	49	37
35	69	39	35	38

Addition with Carrying

Work Space

1. Mr. Brown planted some trees in his orchard. He planted 55 peach trees, 76 apple trees, and 24 pear trees. How many trees did he plant?

____

2. Mr. Brown counted the apple trees in the first three rows of his orchard. He counted 38 trees in the first row, 27 trees in the second row, and 46 trees in the third row. How many trees did he count?

____

3. Mr. Brown then counted the peach trees. He counted 64 trees in the first row, 75 trees in the second row, and 59 trees in the third row. How many peach trees did Mr. Brown count?

____

Add and check.

68	77	86	27	39	18
89	76	39	69	45	36
56	69	76	15	28	27
53	25	20	88	87	97
74	82	17	34	64	35
66	49	68	50	73	70
6	80	65	90	88	7
81	6	75	48	60	57
35	44	2	5	4	70

Practice

Add and check.

363 424 212	134 342 221	243 504 251	465 210 23	240 123 316
211 134 642	224 24 730	521 350 15	600 42 356	302 107 490
211 444 320	421 205 43	14 343 522	714 32 242	320 230 429

Subtract and check.

288 144	467 337	650 530	865 220	799 49
587 364	426 216	450 120	879 654	684 504
789 282	678 478	580 250	975 170	925 625

Spending Money

Work Space

1. Mrs. James went to the store. She bought one pound of butter for 70¢, 5 pounds of sugar for 56¢, and two dozen eggs for 90 cents. How much money did Mrs. James spend?

____

2. Jane bought a pencil box for 25¢, Alice bought a pen for 50¢, and Mary bought crayons for 30¢. The three girls spent _______________ .

3. Bob went to the store. He bought soap for 11¢, a toothbrush for 35¢, and toothpaste for 69¢. How much money did Bob spend?

____

4. John spent 42¢, Joe spent 54¢, and Don spent 63¢. How much money did the three boys spend?

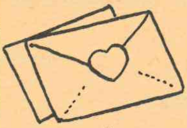
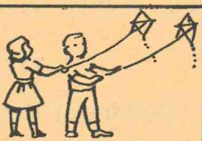
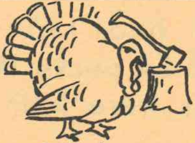
____

5. Mother went to the store. She bought bread for 24¢, butter for 83¢, and cookies for 65¢. Mother spent _______________ at the store.

6. Jim is building a doghouse. He bought lumber for 95¢, nails for 36¢, and a can of paint for 40¢. How much money did Jim spend?

____

Months of the Year

January	February	March	April
31 days	 28 days	 31 days	30 days
May	**June**	**July**	**August**
31 days	30 days	31 days	31 days
September	**October**	**November**	**December**
30 days	31 days	 30 days	31 days

The calendar is another way to measure time. It tells the days of the months, the number of days in each month, and the number of months in a year.

Read the months of the year on the calendar.

How many months are in a year? ____________

Which months have 31 days? __________ ______

__________ __________ __________

__________ __________ __________

Which months have 30 days? ____________

__________ __________ __________

Which month has fewer than 30 days? __________

24 hours = 1 day

7 days = 1 week

52 weeks = 1 year

12 months = 1 year

A Bookstore

Mrs. Taylor sold 92 books from a shelf containing 148 books. How many books remained on the shelf?

____

148 books Subtract the ones.
−92 books Subtract the tens.
56 books 5 tens and 6 ones = ________

Work Space

1. Mrs. Taylor sold 48 pencils from a box containing 128 pencils. How many pencils remained to be sold?

____

2. Mrs. Taylor had 115 packs of paper and sold 54 packs. How many packs of paper were left?

____

3. Mrs. Taylor bought 135 new books on the first day of the month. During the month she sold 95 of them. How many books did she have left?

____

4. Mrs. Taylor had 124 birthday cards in her store. Mary and her classmates bought 31 of them. How many birthday cards were left?

____

5. The third grade class decided to buy adventure books for the library. They found 129 adventure books at the bookstore and bought 36 of them. How many adventure books remained in the store? ________

Subtraction with Regrouping

$$\begin{array}{rcrrcrr}
 & & & & & \multicolumn{2}{c}{\text{Regrouped}} \\
42 & = & 4\text{ tens} & 2\text{ ones} & = & 3\text{ tens} & 12\text{ ones} \\
-24 & = & -2\text{ tens} & 4\text{ ones} & = & -2\text{ tens} & 4\text{ ones} \\
\cline{1-1}\cline{3-4}\cline{6-7}
18 & & & & & 1\text{ ten} & 8\text{ ones} \\
 & & & & & \multicolumn{2}{c}{\text{or}} \\
 & & & & & \multicolumn{2}{c}{10 + 8 = 18}
\end{array}$$

By regrouping 42 into 3 tens and 12 ones, you can subtract the 4 ones in 24 from 12 ones.

To check subtraction examples, always add the answer to the smaller number.

$42 - 24 = 18$ Check: $18 + 24 = 42$.

Put the missing numbers in each example. Regroup if necessary. Write the remainders.

$$\begin{array}{rcrrcrr}
 & & & & & \multicolumn{2}{c}{\text{Regroup}} \\
92 & = & \text{tens} & \text{ones} & = & \text{tens} & \text{ones} \\
69 & = & \text{tens} & \text{ones} & = & \text{tens} & \text{ones} \\
\cline{1-1}\cline{3-4}\cline{6-7}
\end{array}$$

$$\begin{array}{rc}
84 & = \\
35 & = \\
\cline{1-1}
\end{array}$$

$$\begin{array}{rc}
57 & = \\
38 & = \\
\cline{1-1}
\end{array}$$

Subtract and check your work.

$$\begin{array}{r} 63 \\ 44 \\ \hline \end{array} \qquad \begin{array}{r} 34 \\ 17 \\ \hline \end{array} \qquad \begin{array}{r} 84 \\ 45 \\ \hline \end{array} \qquad \begin{array}{r} 21 \\ 13 \\ \hline \end{array} \qquad \begin{array}{r} 63 \\ 27 \\ \hline \end{array}$$

$$\begin{array}{r} 81 \\ 29 \\ \hline \end{array} \qquad \begin{array}{r} 74 \\ 47 \\ \hline \end{array} \qquad \begin{array}{r} 45 \\ 16 \\ \hline \end{array} \qquad \begin{array}{r} 92 \\ 74 \\ \hline \end{array} \qquad \begin{array}{r} 47 \\ 38 \\ \hline \end{array}$$

Problems without Numbers

These problems have the numbers missing. Tell how you would work each problem if the numbers were given.

1. If you know the ages of your mother and father, how would you find the difference in their ages?

---

2. Mr. Smith knows how many bushels of wheat he has in one bin and also how many bushels he has in another bin. How can he find how many bushels of wheat he has all together?

---

3. If you bought a new dress and new hat, how do you find the cost of both?

---

4. If you know the total number of pages in your history book and the number of pages you have already read, how can you find the number of pages you still have to read?

---

5. Mrs. Carter knows the price of a dozen eggs and the price of a pound of butter. How does she find the cost of the eggs and the butter?

---

6. Jack had a certain number of marbles. He gave his brother some of the marbles. How would Jack find the number of marbles he had left?

---

7. If you know the number of children in the third grade and fourth grade, how would you find the total number of children in the two grades?

Regrouping in Subtraction

Russell had 75 cents. He spent 9 cents. How many cents did he have left? ______________

			Regrouped	
75¢	= 7 dimes	5 cents	= 6 dimes	15 cents
−9¢	= 0 dimes	9 cents	= 0 dimes	9 cents
			6 dimes	6 cents

or

60 + 6 = 66¢

By regrouping 75¢ into 6 dimes and 15 cents, you can subtract the 9 cents from 15 cents.

Put the missing numbers in each example. Regroup if necessary. Write the remainders.

			Regroup	
35¢	= dimes	cents	= dimes	cents
−6¢	= dimes	cents	= dimes	cents

46¢ =
−8¢ =

50¢ =
−3¢ =

Subtract and check your work.

64¢	83¢	94¢	48¢	75¢
7¢	6¢	5¢	9¢	8¢

30¢	50¢	90¢	70¢	60¢
5¢	4¢	9¢	8¢	7¢

Problems

Work Space

1. Jerry had 28 cents in his purse. He bought candy for 6 cents. Jerry had ________ cents left.

2. Dennis had 37 marbles in his marble bag. He gave 9 of them to Roger. Dennis had ____________ marbles left.

3. Caroline worked 18 arithmetic problems during the arithmetic period. Her friend worked 9 problems. Caroline worked __________ more problems than her friend.

4. Marie's mother gave her 75 cents one morning. She spent 8 cents for a soda. She had ____________ cents left after she paid for the soda.

Write the answers quickly.

15 − 3 = ____ 17 − 4 = ____ 23 − 2 = ____

28 − 5 = ____ 26 − 5 = ____ 26 − 4 = ____

36 − 3 = ____ 29 − 6 = ____ 19 − 7 = ____

37 − 5 = ____ 45 − 4 = ____ 48 − 7 = ____

59 − 8 = ____ 36 − 1 = ____ 57 − 2 = ____

$\begin{array}{r}27\\-7\\\hline\end{array}$ $\begin{array}{r}38\\-8\\\hline\end{array}$ $\begin{array}{r}15\\-5\\\hline\end{array}$ $\begin{array}{r}14\\-4\\\hline\end{array}$ $\begin{array}{r}29\\-9\\\hline\end{array}$

$\begin{array}{r}35\\-5\\\hline\end{array}$ $\begin{array}{r}46\\-6\\\hline\end{array}$ $\begin{array}{r}53\\-3\\\hline\end{array}$ $\begin{array}{r}48\\-8\\\hline\end{array}$ $\begin{array}{r}56\\-6\\\hline\end{array}$

Regrouping Tens in Subtraction

Mr. Hurst has 176 sheep in one field and 57 sheep in a second field. How many more sheep has he in the first field than in the second?

						Regrouped		
		hundred	tens	ones		hundred	tens	ones
176	=	1	7	6	=	1	6	16
−57	=		5	7	=		5	7
						1	1	9

or

100 + 10 + 9 = 119

By regrouping 176 into 1 hundred 6 tens and 16 ones, you can subtract the 7 ones in 57 from the 16 ones.

Put the missing numbers in each example. Regroup if necessary. Write the remainders.

76	=	tens	ones	=	tens	ones
47	=	tens	ones	=	tens	ones

92 =
35 =

257 =
38 =

Subtract and check your work.

95 59	63 48	86 78	31 29	44 38
282 35	573 68	385 46	863 54	481 72
640 27	330 19	460 43	580 36	790 85

Add or Subtract

Work Space

1. Robert had 58 cents and he earned 35 cents. He then had ____________ cents.

2. Marie had 63 cents in her purse. She spent 35 cents. How many cents did Marie have left? ____________

3. Mr. Jones had 187 sheep. He sold 59 of them. Mr. Jones then had ____________ sheep.

4. Charles earned money helping a neighbor to mow his lawn. One day he earned 35¢. The next day he earned 50¢. Charles earned ______ cents mowing the lawn.

5. Fred picked 66 apples. He gave 38 of them away. Fred had _______ apples left.

6. Bruce saw 45 birds in one tree and 56 birds in another tree. He saw ____________ birds.

7. Betty counted 123 history books on three library shelves. Joan counted 54 books on two shelves. Betty counted ____________ more books than Joan.

8. A three-minute overseas telephone call was decreased from $75 in 1927 to $12 in 1962. The three-minute overseas telephone call cost was decreased ____________ by 1962.

Carrying in Addition

Dick sold 244 balloons and Harry sold 373 balloons at the circus. How many balloons did the boys sell? ____________________

244 = 2 hundreds 4 tens 4 ones
373 = 3 hundreds 7 tens 3 ones
617 = 5 hundreds 11 tens 7 ones
or
6 hundreds 1 ten 7 ones
or
600 + 10 + 7 = 617

You regroup the 11 tens into 1 hundred and 1 ten.

Put the missing numbers in each example. Regroup the sum if necessary. Write the sum.

234 = hundreds tens ones
692 = hundreds tens ones

142 =
683 =

Add. Check your work.

432 283	567 160	854 175	643 292	375 250
462 364	642 281	783 143	564 170	284 153
347 580	172 655	655 250	463 463	590 380

At the Zoo

Remember: When solving these problems, write the numbers in a column. Add the ones first. Carry the tens to the tens' column. Add the tens next.

Work Space

1. Alvin went to the zoo. He liked to watch the elephants. The keeper at the zoo told Alvin the one elephant ate 63 pounds of hay one day, 68 pounds the second day, and 66 pounds the third day. How many pounds of hay did the elephant eat in three days? ____________

2. Irma fed three elephants. She gave 34 peanuts to the first elephant, 27 peanuts to the second elephant, and 25 peanuts to the third elephant. How many peanuts did Irma feed the elephants? ____________

3. The zoo keeper fed 12 giraffes, 15 lions, and 8 tigers. How many animals did he feed? ____________

4. Ada counted 14 monkeys in the first cage, 25 monkeys in the second cage, and 16 monkeys in the third cage. How many monkeys did she count? ____________

5. Allen saved his money to go to the zoo. He saved 85¢ the first week, 76¢ the second week, and 95¢ the third week. How much money had he saved? ____________

Adding Money

In writing dollars and cents, we place a dollar sign in front of the number and a dot or cents point between dollars and cents. In adding, we place all cents points exactly under each other.

		Dollars		Dimes	Cents	
$4.89	=	4	.	8	9	
+3.42	=	+3	.	4	2	
$8.31	= $	7	.	12	11	
				or		
	$	8	.	3	1	= $8.31

You regroup the 11 cents into 1 dime and 1 cent. Add the 1 dime to the 12 dimes. 12 + 1 = 13.

You regroup the 13 dimes into 1 dollar and 3 dimes. Add the 1 dollar to the 7 dollars. 7 + 1 = 8.

Put the missing numbers in each example. Regroup the sum if necessary. Write the sum.

		Dollars	Dimes	Cents
$3.97	=			
4.75	=			
$4.23	=			
2.41	=			
1.54	=			

Add.

$2.96	$3.86	$4.53	$5.64	$7.29
6.18	2.95	4.85	1.68	2.58

$5.94	$3.46	$5.94	$2.65	$4.56
2.59	2.87	2.56	3.74	2.78
1.62	1.74	1.67	1.85	1.91

Using Money

Work Space

1. Ben paid $2.25 for a baseball bat and $4.95 for a glove. Ben paid ________ for the bat and the glove.

2. Frank earned $3.35 one week and $5.90 the next week. How much did he earn in two weeks? ________

3. Charles deposited $2.45 in his savings account one week and $4.25 the next week. Charles deposited ________ in two weeks.

4. A third grade class bought a tool box for $6.78 and small pieces of lumber for $2.65. How much did the class spend? ________

5. Ben and his father went shopping. They bought a fishing rod for $2.95, a fish net for $1.75, and a pair of rubber boots for $5.98. How much did they spend for these things? ________

6. Ben's father bought Ben a shirt for $2.95, bathing trunks for $2.98, and a football for $4.95. How much did these things cost? ________

7. Ben paid $.95 for a book, $.59 for a game, and $1.35 for a bat. Ben spent ________ all together.

Carrying Tens

Mr. Perry took his son, Jerry, on a business trip. They drove 27 miles to Dallas, then 19 miles from Dallas to Bellmar, 26 miles from Bellmar to Canton, and 49 miles from Canton to their home. How many miles did they drive? ____________

27 = 2 tens 7 ones
19 = 1 ten 9 ones
26 = 2 tens 6 ones
49 = 4 tens 9 ones
121 = 9 tens 31 ones
or
12 tens 1 one or 120 + 1 = 121

Add the ones first.
7 + 9 + 6 + 9 = 31.
Add the tens next.
2 + 1 + 2 + 4 = 9.

You regroup the 31 ones into 3 tens and 1 one. Add the 3 tens to the 9 tens.

Put in the missing numbers. Regroup. Write the sum.

67 = tens ones
23 = tens ones
52 = tens ones
45 = tens ones

82 = tens ones
27 = tens ones
45 = tens ones
34 = tens ones

45 =
2 =
87 =
18 =

53 =
7 =
64 =
6 =

84	63	45	34	24
20	34	67	57	32
13	73	78	43	56
65	20	52	95	96

42	80	73	94	30
8	45	6	42	89
30	9	41	8	7
7	2	50	36	20

Problems

Work Space

1. Mrs. Davis bought a loaf of bread for 24 cents, one dozen eggs for 48 cents, and five pounds of sugar for 55 cents. What was the total cost of the groceries she bought? ________

2. Tom attended school 18 days in September, 21 days in October, and 17 days in November. How many days did he attend school in the three months? ____________

3. Sadie bought a handkerchief for 35 cents for her mother, a tie for 98 cents for her father, and a doll for 59 cents for her sister. How much did all these presents cost Sadie?

____

4. John earned 85 cents selling newspapers. Harry received 40 cents running errands. James earned 75 cents for mowing a neighbor's lawn. How much did the three boys earn in all?

____

5. The children in the third grade had a valentine party. The girls made 32 ham sandwiches, 34 peanut butter sandwiches, and 36 cheese sandwiches. How many sandwiches did they make for the party? ________

6. Jackson School had a school operetta. Tom sold 54 tickets for the operetta, Dick sold 65 tickets, and Harry sold 48. How many tickets did the three boys sell? __________

Subtraction with Regrouping

						Regrouped		
		hundreds	tens	ones		hundreds	tens	ones
463	=	4	6	3	=	3	15	13
295	=	2	9	5	=	2	9	5
168						1	6	8

or

100 + 60 + 8 = 168

By regrouping 463 into 3 hundreds, 15 tens, and 13 ones, you can subtract the 5 ones from 13 ones and the 9 tens from 15 tens.

Put the missing numbers in each example. Regroup if necessary. Write the remainders.

						Regroup		
		hundreds	tens	ones		hundreds	tens	ones
523	=				=			
345	=				=			

425	=							
297	=							

Subtract and check your answer.

341	465	673	554	942
158	279	377	268	675
846	913	783	450	890
688	636	295	227	591
726	807	640	507	960
529	255	356	274	751

Adding and Subtracting Hundreds

Work Space

1. Lincoln School has 324 pupils and Washington School has 445 pupils. How many pupils are there in the two schools? ________

2. How many more pupils are enrolled in Washington School than in Lincoln School? ________

3. The children decided to count the cars passing Lincoln School. They saw 153 cars pass yesterday and 284 today. How many cars did they see pass the school on the two days?

____

4. If 153 cars passed Lincoln School yesterday and 284 cars passed today, how many more cars passed today than yesterday? ________

5. Grant School had 843 books in their school library. During the school year the parents bought 135 new books to add to the library. How many books did they have in the school library then? ________

6. Washington School, with an enrollment of 445 pupils, had 110 pupils absent on a very stormy day. How many pupils were present?

____

7. Grant School has 324 pupils enrolled in the primary grades and 326 pupils in the intermediate grades. How many pupils are enrolled in Grant School? ________

Practice

Add and check.

27¢ 12¢ 53¢ 41¢	38¢ 44¢ 22¢ 65¢	16¢ 34¢ 76¢ 33¢	42¢ 29¢ 62¢ 56¢	58¢ 66¢ 45¢ 27¢
$4.65 4.77	$2.91 3.29	$6.24 3.87	$5.67 6.74	$7.63 6.98
$7.23 2.60 2.74	$4.64 5.23 2.57	$4.45 6.02 3.84	$3.98 .45 6.30	$6.48 7.00 1.99

Subtract and check.

56¢ 37¢	60¢ 16¢	40¢ 8¢	74¢ 46¢	83¢ 26¢
$1.34 .72	$1.06 .33	$1.08 .56	$1.75 .46	$1.45 .75
$4.25 2.74	$8.45 5,36	$7.06 3.42	$6.90 2.45	$9.35 6.26

Bank Day at School

The third grade children have a bank day at school. Tom deposited $2.48. Joe deposited $.93. How much more money did Tom deposit than Joe? __________

						Regrouped		
		Dollars	Dimes	Cents		Dollars	Dimes	Cents
$2.48	=	2 .	4	8	=	1 .	14	8
−.93	=	− .	9	3	=	− .	9	3
$1.55						1 .	5	5 =
								$1.55

By regrouping $2.48 into 1 dollar, 14 dimes, and 8 cents, you can subtract the 9 dimes from 14 dimes.

Put the missing numbers in each example. Regroup if necessary. Write the remainders.

						Regroup		
		Dollars	Dimes	Cents		Dollars	Dimes	Cents
$5.27	=							
−.92	=							

Subtract.

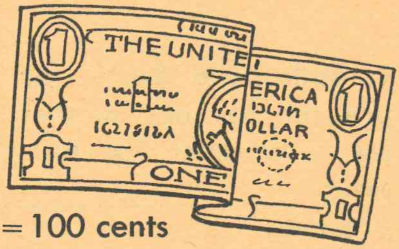
$4.36	$7.45	$6.69	$5.58	$8.38
.64	.82	.95	.73	.75
$5.15	$9.25	$3.19	$7.87	$8.42
.73	.75	.28	.94	.50

Work Space

1. Mrs. Smith's room had $9.46. Mrs. Martin's room had $7.62. How much more money did Mrs. Smith's room have than Mrs. Martin's? __________

2. Nancy has $2.39 to put in the bank. Sue has $.99. How much more money does Nancy have than Sue? __________

Dollars and Cents



$1.00 = 100 cents

We use the dollar sign ($) and cents point to write dollars and cents, as $5.45.

$5.45 = 5 dollars and 45 cents
$ .35 = no dollars and 35 cents

Write the answers.

Five dollars and 25 cents = $5.25
Seven dollars and 47 cents = ________
Six dollars and 79 cents = ________
Nine dollars and 83 cents = ________
Eight dollars and 35 cents = ________
Four dollars and 99 cents = ________

Add.

$.93	$.85	$.73	$.62	$.84
.75	.70	.35	.07	.71

$6.65	$8.55	$2.16	$4.50	$7.27
3.14	2.32	5.83	5.25	1.02

Subtract.

$.98	$.77	$.68	$.59	$.88
.43	.36	.25	.53	.82

$6.48	$5.98	$8.75	$7.42	$9.98
4.25	4.83	6.40	3.22	6.08

Money Problems

Work Space

1. Ruth paid $4.69 for a birthday present for her mother and $5.49 for a present for her father. She paid ________________ for both presents.

2. Alice's mother had $9.65 in her purse. She bought Alice a hat for $4.69. How much money did she have left? ________________

3. Mr. Roberts paid a gas bill of $6.48 and an electric bill of $7.25. Both bills cost him ________________ .

4. George had $7.50 in his saving bank. His father gave him $2.55 and his mother gave him $1.75. How much money did George have then?

____

5. Mr. Black had $15.00 in his pocket book. He gave Mrs. Black $9.50 to buy groceries. How much money did he have left? ________________

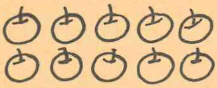
6. Cecil earned $4.55 one week and $5.70 the next week. In two weeks Cecil earned ________________ .

7. Fred earned $11.25 working for a neighbor. He spent $8.98 for a football. How much money did he have left? ________________

Learning to Multiply

Multiplication is a short way to add. The sign × tells us to multiply. It means times or multiply. The answer is called the product. Write the products.

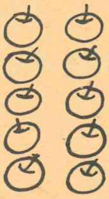
$$\begin{array}{r} 5 \\ \times 2 \\ \hline 10 \end{array}$$



$$\begin{array}{r} 5 \\ 5 \\ \hline 10 \end{array}$$

Two 5's = 10

$$\begin{array}{r} 2 \\ \times 5 \\ \hline 10 \end{array}$$



$$\begin{array}{r} 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ \hline 10 \end{array}$$

Five 2's = 10

$$\begin{array}{rrrrrrrr} 2 & 2 & 7 & 7 & 8 & 8 & 9 & 9 \\ \times 2 & +2 & \times 2 & +7 & \times 2 & +8 & \times 2 & +9 \\ \hline \end{array}$$

$$\begin{array}{rrrrrrrr} & 3 & & 4 & & 6 & & 5 \\ & 3 & & 4 & & 6 & & 5 \\ & 3 & & 4 & & 6 & & 5 \\ 3 & 3 & 4 & 4 & 6 & 6 & 5 & 5 \\ \times 5 & +3 & \times 5 & +4 & \times 5 & +6 & \times 5 & +5 \\ \hline \end{array}$$

Write the missing numerals in these multiplication sentences. If your textbook has a number line, use it to see if the sentences are true.

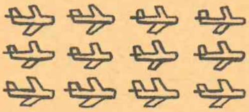
2 × 1 = ____ 2 × 2 = ____ 2 × 3 = ____
2 × 4 = ____ 2 × 5 = ____ 2 × 6 = ____
2 × 7 = ____ 2 × 8 = ____ 2 × 9 = ____
5 × 1 = ____ 5 × 2 = ____ 5 × 3 = ____
5 × 4 = ____ 5 × 5 = ____ 5 × 6 = ____
5 × 7 = ____ 5 × 8 = ____ 5 × 9 = ____

$$\begin{array}{rrrrrrrr} 3 & 1 & 7 & 6 & 1 & 9 & 8 & 9 \\ \times 2 & \times 2 & \times 5 & \times 2 & \times 5 & \times 2 & \times 5 & \times 5 \\ \hline \end{array}$$

$$\begin{array}{rrrrrrrr} 6 & 7 & 4 & 5 & 3 & 8 & 5 & 2 \\ \times 5 & \times 2 & \times 5 & \times 2 & \times 5 & \times 2 & \times 5 & \times 4 \\ \hline \end{array}$$

Multiplication

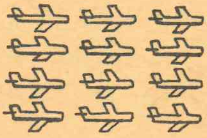
$\begin{array}{r}4\\ \times 3\\ \hline\end{array}$



$\begin{array}{r}4\\ 4\\ 4\\ \hline\end{array}$

Three 4's =

$\begin{array}{r}3\\ \times 4\\ \hline\end{array}$



$\begin{array}{r}3\\ 3\\ 3\\ 3\\ \hline\end{array}$

Four 3's =

$\begin{array}{r}4\\ \times 4\\ \hline\end{array}$ $\begin{array}{r}4\\ 4\\ 4\\ 4\\ \hline\end{array}$

Four 4's =

$\begin{array}{r}5\\ \times 4\\ \hline\end{array}$ $\begin{array}{r}5\\ 5\\ 5\\ 5\\ \hline\end{array}$

Four 5's =

$\begin{array}{r}6\\ \times 4\\ \hline\end{array}$ $\begin{array}{r}6\\ 6\\ 6\\ 6\\ \hline\end{array}$

Four 6's =

Write the missing numerals in these multiplication sentences. If your textbook has a number line, use it to see if the sentences are true.

3 × 1 = ____ 3 × 2 = ____ 3 × 3 = ____
3 × 4 = ____ 3 × 5 = ____ 3 × 6 = ____
3 × 7 = ____ 3 × 8 = ____ 3 × 9 = ____
4 × 1 = ____ 4 × 2 = ____ 4 × 3 = ____
4 × 4 = ____ 4 × 5 = ____ 4 × 6 = ____
4 × 7 = ____ 4 × 8 = ____ 4 × 9 = ____

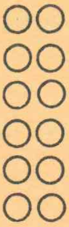
$$\begin{array}{rrrrrrr}2 & 5 & 3 & 1 & 8 & 9 & 7\\ \times 3 & \times 3 & \times 3 & \times 3 & \times 3 & \times 3 & \times 3\\ \hline\end{array}$$

$$\begin{array}{rrrrrrr}1 & 3 & 7 & 8 & 2 & 9 & 4\\ \times 4 & \times 4 & \times 4 & \times 4 & \times 4 & \times 4 & \times 4\\ \hline\end{array}$$

$$\begin{array}{rrrrrrr}4 & 6 & 3 & 4 & 5 & 6 & 1\\ \times 3 & \times 3 & \times 1 & \times 1 & \times 4 & \times 4 & \times 1\\ \hline\end{array}$$

More Multiplication

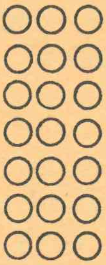
$\begin{array}{r}2\\ \times 6\\ \hline\end{array}$



$\begin{array}{r}2\\ 2\\ 2\\ 2\\ 2\\ 2\\ \hline\end{array}$

Six 2's = ____

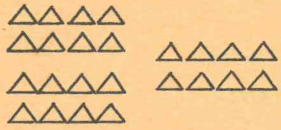
$\begin{array}{r}3\\ \times 7\\ \hline\end{array}$



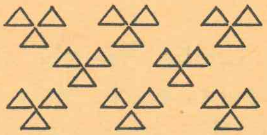
$\begin{array}{r}3\\ 3\\ 3\\ 3\\ 3\\ 3\\ 3\\ \hline\end{array}$

Seven 3's = ____

$\begin{array}{r}8\\ \times 3\\ \hline\end{array}$



$\begin{array}{r}3\\ \times 8\\ \hline\end{array}$



Write the missing numerals in these multiplication sentences.

6 × 1 = ____
6 × 2 = ____
6 × 3 = ____
6 × 4 = ____
6 × 5 = ____

7 × 1 = ____
7 × 2 = ____
7 × 3 = ____
7 × 4 = ____
7 × 5 = ____

8 × 1 = ____
8 × 2 = ____
8 × 3 = ____
8 × 4 = ____
8 × 5 = ____

Write the products.

$\begin{array}{r}3\\ \times 3\\ \hline\end{array}$	$\begin{array}{r}2\\ \times 8\\ \hline\end{array}$	$\begin{array}{r}3\\ \times 6\\ \hline\end{array}$	$\begin{array}{r}4\\ \times 5\\ \hline\end{array}$	$\begin{array}{r}2\\ \times 7\\ \hline\end{array}$	$\begin{array}{r}2\\ \times 6\\ \hline\end{array}$
$\begin{array}{r}3\\ \times 4\\ \hline\end{array}$	$\begin{array}{r}5\\ \times 3\\ \hline\end{array}$	$\begin{array}{r}6\\ \times 5\\ \hline\end{array}$	$\begin{array}{r}9\\ \times 5\\ \hline\end{array}$	$\begin{array}{r}7\\ \times 5\\ \hline\end{array}$	$\begin{array}{r}4\\ \times 7\\ \hline\end{array}$
$\begin{array}{r}3\\ \times 8\\ \hline\end{array}$	$\begin{array}{r}6\\ \times 4\\ \hline\end{array}$	$\begin{array}{r}8\\ \times 4\\ \hline\end{array}$	$\begin{array}{r}7\\ \times 3\\ \hline\end{array}$	$\begin{array}{r}9\\ \times 3\\ \hline\end{array}$	$\begin{array}{r}8\\ \times 5\\ \hline\end{array}$
$\begin{array}{r}4\\ \times 6\\ \hline\end{array}$	$\begin{array}{r}3\\ \times 7\\ \hline\end{array}$	$\begin{array}{r}4\\ \times 8\\ \hline\end{array}$	$\begin{array}{r}5\\ \times 6\\ \hline\end{array}$	$\begin{array}{r}5\\ \times 7\\ \hline\end{array}$	$\begin{array}{r}5\\ \times 8\\ \hline\end{array}$

Problems with Multiplication

Write the number sentences for these problems in the work space.

Work Space

1. The boys in the Lincoln School have 2 baseball teams. There are 9 players on each team. How many players are on both teams? ____________

2. Lucille bought 4 pencils that cost 5 cents each. How much did she pay for the four pencils? ____________

3. Elmer saved 3 cents a day for 6 days. How many cents did he save in 6 days? ____________

4. Susan bought 5 Christmas cards that cost 8 cents each. She paid ____________ for the cards.

5. Evan bought 6 oranges at 4 cents each. How many cents did he pay for the oranges? ____________

6. If apples are selling at 4 cents each, how many cents will 8 apples cost? ____________

7. Stanley bought 3 boxes of crayons at 9 cents a box. He paid ____________ for the crayons.

8. Mrs. Rose gave each of the 5 girls who were playing in her yard 4 cookies. How many cookies did she give to the girls? ____________

Multiplication Facts about 2

Write the missing numerals in these multiplication sentences.

2 × 1 = ______
2 × 2 = ______
2 × 3 = ______
2 × 4 = ______
2 × 5 = ______
2 × 6 = ______
2 × 7 = ______
2 × 8 = ______
2 × 9 = ______

1 × 2 = ______
2 × 2 = ______
3 × 2 = ______
4 × 2 = ______
5 × 2 = ______
6 × 2 = ______
7 × 2 = ______
8 × 2 = ______
9 × 2 = ______

Write the products.

1	2	9	8	7	5	3	4	6
2	2	2	2	2	2	2	2	2

2	2	2	2	2	2	2	2	2
3	1	4	2	6	7	5	9	8

Work Space

1. There are 6 toy soldiers in one box. Mother bought 2 boxes. How many toy soldiers did Mother buy?

______

2. Harry has 4 pockets. He has 2 pennies in each pocket. How many pennies does Harry have?

______

3. John made 7 kites. He put 2 stars on each kite. How many stars did he use on the kites?

______

Multiplication

Write the products.

$\begin{array}{r}5\\ \times 8\\ \hline\end{array}$ $\begin{array}{r}6\\ \times 3\\ \hline\end{array}$ $\begin{array}{r}7\\ \times 2\\ \hline\end{array}$ $\begin{array}{r}4\\ \times 3\\ \hline\end{array}$ $\begin{array}{r}7\\ \times 4\\ \hline\end{array}$ $\begin{array}{r}8\\ \times 3\\ \hline\end{array}$

$\begin{array}{r}9\\ \times 4\\ \hline\end{array}$ $\begin{array}{r}5\\ \times 7\\ \hline\end{array}$ $\begin{array}{r}6\\ \times 4\\ \hline\end{array}$ $\begin{array}{r}8\\ \times 5\\ \hline\end{array}$ $\begin{array}{r}5\\ \times 9\\ \hline\end{array}$ $\begin{array}{r}4\\ \times 8\\ \hline\end{array}$

$\begin{array}{r}7\\ \times 5\\ \hline\end{array}$ $\begin{array}{r}9\\ \times 3\\ \hline\end{array}$ $\begin{array}{r}2\\ \times 6\\ \hline\end{array}$ $\begin{array}{r}5\\ \times 5\\ \hline\end{array}$ $\begin{array}{r}8\\ \times 2\\ \hline\end{array}$ $\begin{array}{r}4\\ \times 4\\ \hline\end{array}$

A number times 0, or 0 times a number is always 0.

$\begin{array}{r}1\\ \times 0\\ \hline\end{array}$ $\begin{array}{r}3\\ \times 0\\ \hline\end{array}$ $\begin{array}{r}0\\ \times 4\\ \hline\end{array}$ $\begin{array}{r}9\\ \times 0\\ \hline\end{array}$ $\begin{array}{r}5\\ \times 0\\ \hline\end{array}$ $\begin{array}{r}0\\ \times 6\\ \hline\end{array}$

$\begin{array}{r}7\\ \times 0\\ \hline\end{array}$ $\begin{array}{r}0\\ \times 8\\ \hline\end{array}$ $\begin{array}{r}2\\ \times 0\\ \hline\end{array}$ $\begin{array}{r}0\\ \times 5\\ \hline\end{array}$ $\begin{array}{r}0\\ \times 7\\ \hline\end{array}$ $\begin{array}{r}5\\ \times 0\\ \hline\end{array}$

$\begin{array}{r}10\\ \times 2\\ \hline\end{array}$ $\begin{array}{r}20\\ \times 4\\ \hline\end{array}$ $\begin{array}{r}30\\ \times 3\\ \hline\end{array}$ $\begin{array}{r}60\\ \times 2\\ \hline\end{array}$ $\begin{array}{r}40\\ \times 1\\ \hline\end{array}$ $\begin{array}{r}50\\ \times 5\\ \hline\end{array}$

$\begin{array}{r}30\\ \times 4\\ \hline\end{array}$ $\begin{array}{r}70\\ \times 2\\ \hline\end{array}$ $\begin{array}{r}80\\ \times 4\\ \hline\end{array}$ $\begin{array}{r}20\\ \times 3\\ \hline\end{array}$ $\begin{array}{r}60\\ \times 3\\ \hline\end{array}$ $\begin{array}{r}20\\ \times 5\\ \hline\end{array}$

The School Cafeteria

Mrs. Johns bought 2 baskets of peaches for the school cafeteria. There were 42 peaches in one basket. How many peaches were in the 2 baskets? ________________

Add

$$\begin{array}{r} 42 \\ \underline{42} \\ 84 \end{array}$$

Multiply

$$\begin{array}{r} 42 \\ \underline{\times 2} \\ 4 \\ \underline{80} \\ 84 \end{array}$$

Multiply the ones first.
2 × 2 = 4.
Multiply the tens next.
2 × 4 = 8.

There were 84 peaches in the two baskets.

$2 \times 42 = (2 \times 2) + (2 \times 40)$
$2 \times 42 = 4 + 80$
$2 \times 42 = 84$

Put the missing numerals in these exercises.

$2 \times 43 = (2 \times 3) + (2 \times 40)$
$2 \times 43 = \qquad + $
$2 \times 43 = $

$2 \times 34 = (2 \times 4) + (2 \times 30)$
$2 \times 34 = \qquad + $
$2 \times 34 = $

$$\begin{array}{r} 43 \\ \underline{\times 2} \end{array} \qquad \begin{array}{r} 24 \\ \underline{\times 2} \end{array} \qquad \begin{array}{r} 32 \\ \underline{\times 2} \end{array} \qquad \begin{array}{r} 44 \\ \underline{\times 2} \end{array} \qquad \begin{array}{r} 22 \\ \underline{\times 2} \end{array} \qquad \begin{array}{r} 31 \\ \underline{\times 2} \end{array}$$

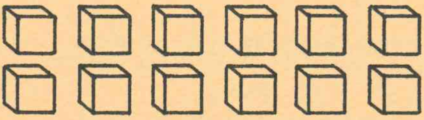
Work Space

1. There were 41 chairs in the cafeteria. How many children can be seated in 2 lunch periods? ________________

2. The milkman delivered 21 bottles of milk on Monday, and 2 times as many bottles on Tuesday. How many bottles of milk did he deliver on Tuesday? ________________

Learning Division

Dividing groups of objects into equal groups is called division.



= 12 blocks

The blocks are divided into equal groups.

There are 2 blocks in each group.

How many twos are there in twelve? ______________

That means six twos are in twelve.

We say 12 divided by 2 = 6; because 6 × 2 = 12. We write it like this: 12 ÷ 2 = 6.

The sign of division is ÷ which means divided by.

How many twos are there in four? ______________

How many twos are there in eight? ______________

How many twos are there in ten? ______________

We can write 4 divided by 2 in different ways.

4 ÷ 2 = 2 or $\begin{array}{r} 2 \\ 2\overline{)4} \\ \underline{4} \end{array}$

Write the answers.

10 ÷ 2 = 5 6 ÷ 2 = _____ 12 ÷ 2 = _____

4 ÷ 2 = _____ 8 ÷ 2 = _____ 2 ÷ 2 = _____

$\begin{array}{r} 5 \\ 2\overline{)10} \\ \underline{10} \end{array}$ $2\overline{)12}$ $2\overline{)8}$ $2\overline{)6}$ $2\overline{)4}$

Division Facts about 2

The sign for division is ÷. It means divided by.

When you find how many 2's there are in 4, you are dividing.

The answer in division is called the quotient.

Write the missing numerals in these division sentences. If your textbook has a number line, use it to see if the sentences are true.

2 ÷ 2 = ______

4 ÷ 2 = ______

6 ÷ 2 = ______

8 ÷ 2 = ______

10 ÷ 2 = ______

12 ÷ 2 = ______

14 ÷ 2 = ______

16 ÷ 2 = ______

18 ÷ 2 = ______

2 ÷ 1 = ______

4 ÷ 2 = ______

6 ÷ 3 = ______

8 ÷ 4 = ______

10 ÷ 5 = ______

12 ÷ 6 = ______

14 ÷ 7 = ______

16 ÷ 8 = ______

18 ÷ 9 = ______

Divide.

$\begin{array}{r} 4 \\ 2\overline{)8} \\ 8 \\ \hline \end{array}$ $2\overline{)2}$ $2\overline{)4}$ $2\overline{)6}$ $2\overline{)8}$

$2\overline{)10}$ $2\overline{)12}$ $2\overline{)14}$ $2\overline{)16}$ $2\overline{)18}$

Find the answers.

$\frac{1}{2}$ of 18 = ____ $\frac{1}{2}$ of 14 = ____ $\frac{1}{2}$ of 10 = ____

Dividing into Equal Groups

Jane had 46 cents and gave 2 cents to each of her playmates. How many playmates had she?

____

$$\begin{array}{r@{\,}l} & 2 \\ 2\overline{)} & 46 \\ & \underline{40} = 20 \times 2 \end{array}$$

Divide the tens first.
4 tens ÷ 2 = 2 tens.
Write the 2 tens above the 4 tens.

$$\begin{array}{r@{\,}l} & 23 \text{ playmates} \\ 2\overline{)} & 46 \\ & \underline{40} = 20 \times 2 \\ & 6 \\ & \underline{6} = 3 \times 2 \end{array}$$

Divide the ones last.
6 ones ÷ 2 = 3 ones.
Write the 3 ones above the 6 ones.

The answer is 23 playmates.
Check: 2 × 23 = 46.

The answer is called the quotient.

Divide.

$2\overline{)\,16}$ $2\overline{)\,14}$ $2\overline{)\,18}$ $2\overline{)\,12}$

$2\overline{)\,68}$ $2\overline{)\,42}$ $2\overline{)\,88}$ $2\overline{)\,26}$

$2\overline{)\,40}$ $2\overline{)\,80}$ $2\overline{)\,100}$ $2\overline{)\,120}$

1. Mary has 24 cents. How many cookies can she buy at 2 cents each? ________________

2. Martin paid 84 cents for 2 balloons. What was the cost of each balloon? ________________

3. Mrs. Jones gave 60 cents to her sons, Bob and Fred, to divide equally. Each son should have received ____________ cents.

Work Space

$$\begin{array}{r@{\,}l} & \underline{} \text{ cookies} \\ 2\overline{)} & 24 \end{array}$$

Market Day

Mrs. Brown bought 2 dozen eggs at 64 cents a dozen. How much did she pay for the eggs? ____________

$$\begin{array}{rl} 64 & \\ 2 & \\ \hline 8 & \\ 120 & \\ \hline 128 & \text{cents} \end{array}$$

Multiply the ones first.
2 × 4 ones = 8 ones.
Write the 8 in ones' place.
Multiply the tens next.
2 × 6 tens = 12 tens or 120.
Write 1 in hundreds' place, 2 in tens' place, and 0 in ones' place.

The eggs cost 128 cents or $1.28.

Multiply.

$$\begin{array}{r}72\\2\\\hline\end{array}\qquad\begin{array}{r}83\\2\\\hline\end{array}\qquad\begin{array}{r}94\\2\\\hline\end{array}\qquad\begin{array}{r}60\\2\\\hline\end{array}\qquad\begin{array}{r}73\\2\\\hline\end{array}\qquad\begin{array}{r}54\\2\\\hline\end{array}$$

$$\begin{array}{r}81\\3\\\hline\end{array}\qquad\begin{array}{r}90\\3\\\hline\end{array}\qquad\begin{array}{r}63\\3\\\hline\end{array}\qquad\begin{array}{r}61\\3\\\hline\end{array}\qquad\begin{array}{r}80\\3\\\hline\end{array}\qquad\begin{array}{r}90\\3\\\hline\end{array}$$

Work Space

1. Mrs. Brown bought 2 melons at 54 cents each. How much did she pay for the melons? ____________

2. Her daughter bought 3 bouquets of flowers at 70 cents each. How much did she pay for the flowers? ____________

3. Betty bought 3 cans of cat food for her cat. Each can cost 12¢. Betty paid ________ cents for the cat food.

Problems

Divide or multiply to answer the questions in these problems. Write the sentences for the problems in the work space.

Work Space

1. There are 4 quarts in one gallon. How many quarts are there in 2 gallons? ________________

2. Linda had 6 flowers to put on hats for her dolls. She put 2 flowers on each hat. Linda put flowers on ________ hats.

3. One of Linda's dolls has 7 dresses. Each dress has 2 buttons on it. There are ___________ buttons on the 7 dresses.

4. Tom has 2 rows of toy soldiers. There are 8 soldiers in each row. How many toy soldiers does Tom have? ________________

5. Linda has 10 doll shoes. Each doll needs 2 shoes. Linda has enough shoes for _______ dolls.

6. Don made 9 sailboats. He put 2 sails on each boat. How many sails did he use? ________________

7. June and Sue earned 18 cents together. They divided the money equally. Each girl received _______ cents.

Dividing Equally

Mr. Hurst had 146 turkeys. He divided them equally into 2 pens. How many turkeys did he put in each pen?

____

$$\begin{array}{rl} 7 & \\ 2\overline{)146} & \\ \underline{140} & = 70 \times 2 \end{array}$$

Begin to divide the hundreds first. The 1 hundred cannot be put in 2 equal groups unless the 1 hundred is changed to 10 tens.

The 10 tens and the 4 tens are 14 tens.

The 14 tens divided by 2 = 7 tens. Write the 7 above the 4 in ten's place.

$$\begin{array}{rl} 73 & \text{turkeys} \\ 2\overline{)146} & \\ \underline{140} & = 70 \times 2 \\ 6 & \\ \underline{6} & = 3 \times 2 \end{array}$$

Divide the ones next.
6 ones divided by 2 = 3 ones.
Write 3 in ones' place.

The answer is 73 turkeys.

Work Space

1. Mrs. Hurst baked 144 cookies. She put an equal number of cookies into each of 2 boxes. How many cookies did she put in each box?

____

2. Jane cut 128 roses. She arranged them in 2 bouquets, putting an equal number of roses in each bouquet. How many roses were in each bouquet?

____

Divide. Watch the zeros.

$2\overline{)122}$ $2\overline{)124}$ $2\overline{)128}$ $2\overline{)162}$

$2\overline{)106}$ $2\overline{)186}$ $2\overline{)160}$ $2\overline{)104}$

Can You Do This?

This sign − means ____________________

This sign × means ____________________

This sign ÷ means ____________________

This sign + means ____________________

Watch the signs.

4	8	7	18	7	17	8	16
+3	+9	−4	−9	+6	−8	+7	−9

62	84	71	43	14	71
43	32	22	22	33	10
21	11	31	43	40	26
22	11	15	11	21	11

8	4	9	2	12	14	13	9
×2	×2	×2	×7	−5	−7	+6	+7

462	743	645	383	945
−141	−423	−128	−169	−182

22	44	32	10	60	50
×2	×2	×2	×2	×2	×2

$2\overline{)146}$ $2\overline{)188}$ $2\overline{)140}$ $2\overline{)164}$ $2\overline{)120}$

Multiplication Facts about Five

Write the missing numerals in these multiplication sentences.

(1)	(2)
5 × 1 = ______	1 × 5 = ______
5 × 2 = ______	2 × 5 = ______
5 × 3 = ______	3 × 5 = ______
5 × 4 = ______	4 × 5 = ______
5 × 5 = ______	5 × 5 = ______
5 × 6 = ______	6 × 5 = ______
5 × 7 = ______	7 × 5 = ______
5 × 8 = ______	8 × 5 = ______
5 × 9 = ______	9 × 5 = ______

Write the products.

4	6	7	3	8	2	9	5
×5	×5	×5	×5	×5	×5	×5	×5
5	5	5	5	5	5	5	5
×3	×5	×6	×2	×8	×4	×9	×7

Find the cost in each of these problems:

3 pencils at 5 cents each = __________ cents.

4 balls at 5 cents each = __________ cents.

5 apples at 5 cents each = __________ cents.

9 oranges at 5 cents each = __________ cents.

An Auto Ride

A family traveled 203 miles each day. How many miles did they travel in 2 days? ____________

203 miles	Multiply the ones first.
×2	2 × 3 ones = 6 ones.
6 miles	Write 6 in ones' place.
00	There are no tens to multiply.
400	Write 0 in tens' place.
406 miles	Multiply the hundreds.
	2 × 2 hundreds = 4 hundreds or 400.
	Write 4 in hundreds' place.
	The answer is 406 miles.

Multiply. Show your work.

202	403	302	400	340
×2	×2	×2	×2	×2

304	640	501	203	440
×2	×2	×2	×2	×2

1. The children counted 104 cars along the route the first day and 2 times that number the next day. How many cars did they count the second day? ____________

Work Space

104 cars
×2
cars

2. Father paid $3.02 for lunch each day. How much did he pay for lunch in 2 days? ____________

Division Facts about Five

Write the missing numerals in these division sentences.

5 ÷ 5 = ______
10 ÷ 5 = ______
15 ÷ 5 = ______
20 ÷ 5 = ______
25 ÷ 5 = ______
30 ÷ 5 = ______
35 ÷ 5 = ______
40 ÷ 5 = ______
45 ÷ 5 = ______

5 ÷ 1 = ______
10 ÷ 2 = ______
15 ÷ 3 = ______
20 ÷ 4 = ______
25 ÷ 5 = ______
30 ÷ 6 = ______
35 ÷ 7 = ______
40 ÷ 8 = ______
45 ÷ 9 = ______

Write the answers to the multiplication and division sentences. Each row has facts that belong together.

5 × 3 = ___ 3 × 5 = ___ 15 ÷ 3 = ___ 15 ÷ 5 = ___
5 × 6 = ___ 6 × 5 = ___ 30 ÷ 6 = ___ 30 ÷ 5 = ___
5 × 4 = ___ 4 × 5 = ___ 20 ÷ 4 = ___ 20 ÷ 5 = ___
5 × 8 = ___ 8 × 5 = ___ 40 ÷ 8 = ___ 40 ÷ 5 = ___

Divide.

$5\overline{)10}$ $5\overline{)20}$ $5\overline{)35}$ $5\overline{)40}$ $5\overline{)45}$

To find $\frac{1}{5}$ of a number, divide the number by 5.

$\frac{1}{5}$ of 20 = ______ $\frac{1}{5}$ of 30 = ______ $\frac{1}{5}$ of 40 = ______

Multiplication

Mother bought 2 dozen oranges at 45¢ a dozen. How much did the oranges cost? ____________

$$\begin{array}{r} 45\text{¢} \\ \times 2 \\ \hline 10 \\ 80 \\ \hline 90\text{¢} \end{array}$$

Multiply the ones first.
2 × 5 ones = 10 ones or 1 ten and no ones.
Write 0 in ones' place and 1 in tens' place.
Multiply the tens next.
2 × 4 tens = 8 tens or 80.
Write 0 in ones' place and 8 in tens' place.
Write 0 in ones' place. Add: 8 + 1 = 9.
Write 9 in tens' place. The answer is 90¢.

Multiply. Show your work.

$$\begin{array}{r} 48 \\ 2 \\ \hline \end{array} \qquad \begin{array}{r} 74 \\ 2 \\ \hline \end{array} \qquad \begin{array}{r} 38 \\ 2 \\ \hline \end{array} \qquad \begin{array}{r} 49 \\ 2 \\ \hline \end{array} \qquad \begin{array}{r} 36 \\ 2 \\ \hline \end{array} \qquad \begin{array}{r} 84 \\ 2 \\ \hline \end{array}$$

$$\begin{array}{r} 35 \\ 2 \\ \hline \end{array} \qquad \begin{array}{r} 46 \\ 2 \\ \hline \end{array} \qquad \begin{array}{r} 28 \\ 2 \\ \hline \end{array} \qquad \begin{array}{r} 55 \\ 2 \\ \hline \end{array} \qquad \begin{array}{r} 67 \\ 2 \\ \hline \end{array} \qquad \begin{array}{r} 75 \\ 2 \\ \hline \end{array}$$

$$\begin{array}{r} 36 \\ 5 \\ \hline \end{array} \qquad \begin{array}{r} 27 \\ 5 \\ \hline \end{array} \qquad \begin{array}{r} 14 \\ 5 \\ \hline \end{array} \qquad \begin{array}{r} 23 \\ 5 \\ \hline \end{array} \qquad \begin{array}{r} 18 \\ 5 \\ \hline \end{array} \qquad \begin{array}{r} 29 \\ 5 \\ \hline \end{array}$$

1. Mother bought 2 pounds of meat for lunch. The meat cost 85¢ a pound. How much did the 2 lbs. of meat cost?

____

2. The rolls cost 28¢ a dozen. How much did she pay for 5 dozen rolls?

____

Work Space

More Multiplication

A train traveled 505 miles in 1 day. Going at the same rate, how far will it travel in 5 days?

____

505 miles ×5 25	Multiply the ones. 5 × 5 ones = 25 ones. Write the 5 in ones' place and 2 in tens' place.
505 miles ×5 25 00	Multiply the tens. There are no tens to multiply. Write 0 in tens' place and 0 in ones' place.
505 miles ×5 25 00 2500	Multiply the hundreds. 5 × 500 = 2500. Write 25 in hundreds' place, 0 in tens' and ones' places.

2525 = 25 + 00 + 2500 = 2525.

Multiply. Show your work.

507	308	606	407	705
2	2	2	2	2
683	564	792	740	941
2	2	2	2	2
408	209	607	306	504
5	5	5	5	5

Multiplying Money

Mr. and Mrs. Ball took the family to the city on the bus. The bus fare was $1.71. How much did 5 bus tickets cost? ____________

```
 $1.71
    ×5
 -----
     5
   350
   500
 -----
 $8.55
```

Multiply the ones first. 5 × 1 = 5.
Write the 5 in ones' place.
Multiply the tens next. 5 × 70 = 350.
Write the 3 in hundreds' place, the 5 in tens' place, and 0 in ones' place.
Multiply the hundreds last.
5 × 100 = 500.
Write 5 under the hundreds' place, 0 in tens' and ones' places.
5 + 350 + 500 = 855.

The answer is $8.55.

Work Space

1. In the city mother bought gifts for 5 friends. Each gift cost $5.49. How much did she spend for the gifts? ____________

2. Mrs. Ball bought each of her 5 children a pair of shoes at $7.95 a pair. How much did the 5 pairs of shoes cost? ____________

3. Mrs. Ball bought a pair of roller skates for each of her 5 children at $4.95 a pair. How much did she pay for the skates? ____________

4. If a bat for soft ball costs $2.75, how much will 5 bats cost? ____________

Practice

Multiply. Check the answers.

$\begin{array}{r} 32 \\ \times 4 \\ \hline \end{array}$ $\begin{array}{r} 80 \\ \times 2 \\ \hline \end{array}$ $\begin{array}{r} 63 \\ \times 3 \\ \hline \end{array}$ $\begin{array}{r} 93 \\ \times 2 \\ \hline \end{array}$ $\begin{array}{r} 90 \\ \times 2 \\ \hline \end{array}$

$\begin{array}{r} \$.62 \\ \times 3 \\ \hline \end{array}$ $\begin{array}{r} \$.81 \\ \times 3 \\ \hline \end{array}$ $\begin{array}{r} \$.84 \\ \times 2 \\ \hline \end{array}$ $\begin{array}{r} \$.22 \\ \times 4 \\ \hline \end{array}$ $\begin{array}{r} \$.72 \\ \times 2 \\ \hline \end{array}$

Divide. Check the answers.

$2\overline{)\$1.64}$ $3\overline{)\$2.43}$ $3\overline{)\$2.16}$ $2\overline{)\$2.48}$

$3\overline{)\$3.69}$ $4\overline{)\$2.04}$ $4\overline{)\$8.84}$ $5\overline{)\$2.05}$

Answer these quickly.

$\frac{1}{2}$ of 18 = ____ $\frac{1}{2}$ of 28 = ____ $\frac{1}{3}$ of 36 = ____

$\frac{1}{3}$ of 21 = ____ $\frac{1}{3}$ of 96 = ____ $\frac{1}{4}$ of 84 = ____

$\frac{1}{4}$ of 168 = ____ $\frac{1}{3}$ of 183 = ____ $\frac{1}{4}$ of 160 = ____

$\frac{1}{3}$ of 180 = ____ $\frac{1}{2}$ of 286 = ____ $\frac{1}{3}$ of 180 = ____

$\frac{1}{4}$ of 48 = ____ $\frac{1}{5}$ of 150 = ____ $\frac{1}{5}$ of 255 = ____

Practice

Multiply.

$\begin{array}{r}302\\2\\\hline\end{array}$	$\begin{array}{r}401\\2\\\hline\end{array}$	$\begin{array}{r}304\\2\\\hline\end{array}$	$\begin{array}{r}201\\2\\\hline\end{array}$	$\begin{array}{r}403\\2\\\hline\end{array}$
$\begin{array}{r}48\\2\\\hline\end{array}$	$\begin{array}{r}73\\2\\\hline\end{array}$	$\begin{array}{r}39\\2\\\hline\end{array}$	$\begin{array}{r}82\\2\\\hline\end{array}$	$\begin{array}{r}64\\2\\\hline\end{array}$
$\begin{array}{r}42\\5\\\hline\end{array}$	$\begin{array}{r}36\\5\\\hline\end{array}$	$\begin{array}{r}84\\5\\\hline\end{array}$	$\begin{array}{r}67\\5\\\hline\end{array}$	$\begin{array}{r}53\\5\\\hline\end{array}$
$\begin{array}{r}673\\2\\\hline\end{array}$	$\begin{array}{r}462\\2\\\hline\end{array}$	$\begin{array}{r}791\\2\\\hline\end{array}$	$\begin{array}{r}421\\5\\\hline\end{array}$	$\begin{array}{r}330\\5\\\hline\end{array}$
$\begin{array}{r}406\\2\\\hline\end{array}$	$\begin{array}{r}906\\2\\\hline\end{array}$	$\begin{array}{r}607\\2\\\hline\end{array}$	$\begin{array}{r}408\\2\\\hline\end{array}$	$\begin{array}{r}705\\2\\\hline\end{array}$
$\begin{array}{r}309\\5\\\hline\end{array}$	$\begin{array}{r}206\\5\\\hline\end{array}$	$\begin{array}{r}507\\5\\\hline\end{array}$	$\begin{array}{r}803\\5\\\hline\end{array}$	$\begin{array}{r}404\\5\\\hline\end{array}$

Divide.

$2\overline{)442}$	$2\overline{)664}$	$2\overline{)424}$	$2\overline{)186}$
$5\overline{)455}$	$5\overline{)250}$	$5\overline{)305}$	$5\overline{)405}$

Using Multiplication

Harry has 5 paint books. Each book has 144 pages. How many pages did Harry have to paint? ____________

$$\begin{array}{r} 144 \\ \underline{\times 5} \\ 20 \\ 200 \\ \underline{500} \\ 720 \end{array} \text{ pages}$$

Multiply the ones first. 5 × 4 = 20.
Multiply the tens next. 5 × 40 = 200.
Multiply the hundreds last. 5 × 100 = 500.
Add. 20 + 200 + 500 = 720.
Harry's book has 720 pages.

Find the products. Show your work.

\$176 2	\$288 2	\$445 2	\$395 2	\$487 2
\$528 5	\$347 5	\$462 5	\$275 5	\$186 5

Work Space

1. Mr. Jenkins bought sugar in 100 pound bags. He bought 5 bags. How many pounds of sugar did Mr. Jenkins buy? ____________

2. Joe has 56¢. Tim has 5 times as much money as Joe. How much money does Tim have? ____________

3. The Lincoln School uses 463 bottles of milk in one day. How many bottles of milk will it use in 2 days? ________

Multiplying and Dividing by 3

Write the missing numerals in these sentences.

3 × 1 = ______

3 × 2 = ______

3 × 3 = ______

3 × 4 = ______

3 × 5 = ______

3 × 6 = ______

3 × 7 = ______

3 × 8 = ______

3 × 9 = ______

1 × 3 = ______

2 × 3 = ______

3 × 3 = ______

4 × 3 = ______

5 × 3 = ______

6 × 3 = ______

7 × 3 = ______

8 × 3 = ______

9 × 3 = ______

3 ÷ 3 = ______

6 ÷ 3 = ______

9 ÷ 3 = ______

12 ÷ 3 = ______

15 ÷ 3 = ______

18 ÷ 3 = ______

21 ÷ 3 = ______

24 ÷ 3 = ______

27 ÷ 3 = ______

3 ÷ 1 = ______

6 ÷ 2 = ______

9 ÷ 3 = ______

12 ÷ 4 = ______

15 ÷ 5 = ______

18 ÷ 6 = ______

21 ÷ 7 = ______

24 ÷ 8 = ______

27 ÷ 9 = ______

Multiply.

$$\begin{array}{r}2\\ \underline{3}\end{array}\quad \begin{array}{r}4\\ \underline{3}\end{array}\quad \begin{array}{r}6\\ \underline{3}\end{array}\quad \begin{array}{r}8\\ \underline{3}\end{array}\quad \begin{array}{r}1\\ \underline{3}\end{array}\quad \begin{array}{r}3\\ \underline{3}\end{array}\quad \begin{array}{r}5\\ \underline{3}\end{array}\quad \begin{array}{r}7\\ \underline{3}\end{array}\quad \begin{array}{r}9\\ \underline{3}\end{array}$$

Divide.

$3\overline{)21}\qquad 3\overline{)15}\qquad 3\overline{)27}\qquad 3\overline{)18}\qquad 3\overline{)24}$

Shopping with Mother

Tommy and his mother went shopping. Tommy's mother bought 3 ties at 98¢ each. How much did she pay for the three ties? ____________

$$\begin{array}{r} \$\ .98 \\ \times 3 \\ \hline .24 \\ 2.70 \\ \hline \$2.94 \end{array}$$

Explanation:
Place a decimal point before the 98 to show that it is cents.
Use the dollar sign with the decimal point.
Multiply dollars and cents just the same as other numbers.

We place a decimal point in the product so that the two figures to the right show the cents and the figures to the left show dollars. Tommy's mother paid $2.94 for the three ties.

$1.45	$3.07	$.75	$.65	$2.56
×3	×2	×3	×2	×3

$1.95	$.85	$6.38	$.60	$2.49
×3	×5	×5	×5	×5

Work Space

1. Mother paid 37 cents a pound for pretzels. She bought 5 pounds. How much did she pay for the 5 pounds of pretzels? ____________

2. Steak was 95 cents a pound. Mother bought 3 pounds. How much did the steak cost? ____________

Multiplying and Dividing by 4

Write the missing numerals in these sentences.

4 × 1 = ______

4 × 2 = ______

4 × 3 = ______

4 × 4 = ______

4 × 5 = ______

4 × 6 = ______

4 × 7 = ______

4 × 8 = ______

4 × 9 = ______

1 × 4 = ______

2 × 4 = ______

3 × 4 = ______

4 × 4 = ______

5 × 4 = ______

6 × 4 = ______

7 × 4 = ______

8 × 4 = ______

9 × 4 = ______

---

4 ÷ 4 = ______

8 ÷ 4 = ______

12 ÷ 4 = ______

16 ÷ 4 = ______

20 ÷ 4 = ______

24 ÷ 4 = ______

28 ÷ 4 = ______

32 ÷ 4 = ______

36 ÷ 4 = ______

4 ÷ 1 = ______

8 ÷ 2 = ______

12 ÷ 3 = ______

16 ÷ 4 = ______

20 ÷ 5 = ______

24 ÷ 6 = ______

28 ÷ 7 = ______

32 ÷ 8 = ______

36 ÷ 9 = ______

$\begin{array}{r}2\\ \times 4\\ \hline\end{array}$ $\begin{array}{r}4\\ \times 4\\ \hline\end{array}$ $\begin{array}{r}6\\ \times 4\\ \hline\end{array}$ $\begin{array}{r}8\\ \times 4\\ \hline\end{array}$ $\begin{array}{r}1\\ \times 4\\ \hline\end{array}$ $\begin{array}{r}3\\ \times 4\\ \hline\end{array}$ $\begin{array}{r}5\\ \times 4\\ \hline\end{array}$ $\begin{array}{r}7\\ \times 4\\ \hline\end{array}$ $\begin{array}{r}9\\ \times 4\\ \hline\end{array}$

$4\overline{)16}$ $4\overline{)32}$ $4\overline{)24}$ $4\overline{)20}$ $4\overline{)28}$

Dividing Dollars and Cents

Jim paid \$4.80 for four story books. How much did he pay for each book? ____________

$$\begin{array}{r l}
\$1.20 & \\
4\overline{)\$4.80} & \\
\underline{4\ 00} & = 100 \times 4 \\
80 & \\
\underline{80} & = \ \ 20 \times 4
\end{array}$$

Jim paid \$1.20 for each book.

Joe bought his mother 3 lovely roses for \$1.29. How much did each rose cost? ________

$$\begin{array}{r l}
\$\ .43 & \\
3\overline{)\$1.29} & \\
\underline{1\ 20} & = 40 \times 3 \\
9 & \\
\underline{9} & = \ \ 3 \times 3
\end{array}$$

Each rose cost \$.43.

Dollars and cents are divided just the same as any other numbers.

Always place a cents point in the quotient over the cents point in the number to be divided.

Divide. Show your work.

$3\overline{)\$6.39}$ $\qquad$ $2\overline{)\$1.68}$ $\qquad$ $4\overline{)\$2.08}$

$3\overline{)\$2.73}$ $\qquad$ $5\overline{)\$4.50}$ $\qquad$ $4\overline{)\$8.48}$

Work Space

1. Mr. Smith paid \$2.88 for 4 pictures of dogs. How much did each picture cost? ____________

2. Tom spent \$1.89 for 3 airplane models. How much did each model cost? ____________

Money Problems

Work Space

1. Alice bought 3 boxes of face soap for $2.70. How much did she pay for each box? ____________

2. Jack and Joe found 88 marbles in Jack's home. Each took one-half of the marbles. How many marbles did each boy get? ____________

3. Mr. Jones divided $1.80 equally among his 3 children. Each child received __________ cents.

4. Five children bought Miss Judd an Easter lily that cost $2.50. How much money did each child pay?

____

5. Mary, Rose, Ruth, and Jane had a party. They spent $2.48 for the party. They divided the cost equally. How much did each girl pay?

____

6. Ned's father paid $1.50 for 5 gallons of gasoline. Each gallon cost __________ .

7. Mrs. Clark paid $1.20 for two dozen eggs. What did one dozen cost? ____________

8. Mary bought two dresses that cost $8.60. Each dress cost ____________ .

Multiply and Divide

Multiply.

$$\begin{array}{r}143\\2\\\hline\end{array}\qquad\begin{array}{r}213\\3\\\hline\end{array}\qquad\begin{array}{r}321\\3\\\hline\end{array}\qquad\begin{array}{r}121\\4\\\hline\end{array}\qquad\begin{array}{r}333\\3\\\hline\end{array}$$

$$\begin{array}{r}104\\2\\\hline\end{array}\qquad\begin{array}{r}202\\4\\\hline\end{array}\qquad\begin{array}{r}220\\4\\\hline\end{array}\qquad\begin{array}{r}510\\2\\\hline\end{array}\qquad\begin{array}{r}421\\4\\\hline\end{array}$$

$$\begin{array}{r}\$1.23\\2\\\hline\end{array}\qquad\begin{array}{r}\$2.40\\2\\\hline\end{array}\qquad\begin{array}{r}\$1.33\\3\\\hline\end{array}\qquad\begin{array}{r}\$2.21\\4\\\hline\end{array}\qquad\begin{array}{r}\$2.31\\3\\\hline\end{array}$$

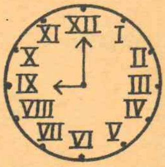
Divide.

$$3\overline{)639}\qquad 2\overline{)846}\qquad 3\overline{)999}\qquad 4\overline{)848}$$

$$3\overline{)963}\qquad 3\overline{)663}\qquad 4\overline{)484}\qquad 2\overline{)846}$$

$$3\overline{)\$3.96}\qquad 4\overline{)\$4.88}\qquad 2\overline{)\$2.46}\qquad 4\overline{)\$4.80}$$

Roman Numerals



This is a picture of a clock with Roman numerals.

The Roman people lived many hundred years ago.

The Roman people used capital letters like I, V, and X to write their numbers.

1	2	3	4	5	6	7	8	9	10	11	12
I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII

I written after I, V, or X is added to the number.

VII = 5 + 1 + 1 = 7. XI = 10 + 1 = 11.

I written before V or X is taken from the number.

IV = 5 − 1 = 4. IX = 10 − 1 = 9.

Write these Roman numerals in our numbers.

VII = ______
I = ______
IV = ______
X = ______
II = ______
VI = ______
XII = ______
IX = ______
VIII = ______
V = ______
III = ______
XI = ______

Write these numbers as Roman numerals.

4 = ______
6 = ______
10 = ______
2 = ______
1 = ______
11 = ______
7 = ______
9 = ______
12 = ______
3 = ______
5 = ______
8 = ______

Even and Odd Numbers

Even numbers end in 2, 4, 6, 8, and 0.

Odd numbers end in 1, 3, 5, 7, and 9.

A number divided by 2 which has nothing left over is called an even number.

$$\begin{array}{rl} 2 & \\ 2\overline{)\,4} & \\ \underline{4} & = 2 \times 2 \end{array}$$

A number divided by 2 which has 1 left over is called an odd number.

$$\begin{array}{rl} 2 & \\ 2\overline{)\,5} & \\ \underline{4} & = 2 \times 2 \\ 1 & \text{left over.} \end{array}$$

Draw a circle around the odd numbers.

1 2 3 4 5 6 7 8 9 10 11 12

In uneven division the answer is the quotient and a number remaining. The number remaining may be more than 1. Write the answers for these examples.

$2\overline{)6}$ $2\overline{)3}$ $2\overline{)8}$ $2\overline{)7}$ $2\overline{)10}$

$3\overline{)9}$ $3\overline{)7}$ $4\overline{)8}$ $4\overline{)9}$ $4\overline{)12}$

$5\overline{)11}$ $5\overline{)15}$ $3\overline{)19}$ $4\overline{)25}$ $5\overline{)31}$

$4\overline{)10}$ $3\overline{)8}$ $5\overline{)23}$ $4\overline{)27}$ $5\overline{)37}$

Time for Practice

Multiply.

$$\begin{array}{rrrrrrr} 6 & 4 & 2 & 3 & 3 & 7 & 5 \\ \underline{2} & \underline{5} & \underline{2} & \underline{5} & \underline{4} & \underline{2} & \underline{5} \end{array}$$

$$\begin{array}{rrrrrrr} 9 & 3 & 2 & 3 & 4 & 7 & 3 \\ \underline{4} & \underline{9} & \underline{5} & \underline{8} & \underline{4} & \underline{3} & \underline{6} \end{array}$$

Multiply.

$$\begin{array}{rrrrrr} 24 & 31 & 24 & 51 & 24 & 30 \\ \underline{2} & \underline{5} & \underline{6} & \underline{9} & \underline{8} & \underline{3} \end{array}$$

$$\begin{array}{rrrrrr} 49 & 56 & 84 & 75 & 27 & 68 \\ \underline{4} & \underline{5} & \underline{3} & \underline{2} & \underline{3} & \underline{4} \end{array}$$

Divide.

$2\overline{)18}$ $4\overline{)28}$ $5\overline{)25}$ $3\overline{)24}$ $2\overline{)24}$

$4\overline{)36}$ $5\overline{)35}$ $3\overline{)27}$ $4\overline{)24}$ $5\overline{)30}$

$2\overline{)100}$ $3\overline{)276}$ $3\overline{)123}$ $4\overline{)208}$ $5\overline{)550}$

Find.

$\frac{1}{2}$ of 16 = ____ $\frac{1}{3}$ of 21 = ____ $\frac{1}{5}$ of 40 = ____

$\frac{1}{4}$ of 8 = ____ $\frac{1}{2}$ of 24 = ____ $\frac{1}{4}$ of 28 = ____

Division

Write the quotient for these examples.

200 ÷ 2 = ____ 900 ÷ 3 = ____ 800 ÷ 4 = ____

600 ÷ 2 = ____ 600 ÷ 3 = ____ 400 ÷ 4 = ____

400 ÷ 4 = ____ 300 ÷ 3 = ____ 800 ÷ 2 = ____

120 ÷ 2 = ____ 160 ÷ 4 = ____ 180 ÷ 3 = ____

250 ÷ 5 = ____ 240 ÷ 4 = ____ 150 ÷ 3 = ____

200 ÷ 4 = ____ 300 ÷ 5 = ____ 400 ÷ 5 = ____

The divisor and quotient are given. Find the dividend. Write it in the dividend's place.

$\begin{array}{r} 2 \\ 3\overline{)\quad\quad} \end{array}$ $\begin{array}{r} 2 \\ 4\overline{)\quad\quad} \end{array}$ $\begin{array}{r} 3 \\ 3\overline{)\quad\quad} \end{array}$ $\begin{array}{r} 6 \\ 2\overline{)\quad\quad} \end{array}$ $\begin{array}{r} 5 \\ 3\overline{)\quad\quad} \end{array}$

$\begin{array}{r} 24 \\ 2\overline{)\quad\quad} \end{array}$ $\begin{array}{r} 6 \\ 5\overline{)\quad\quad} \end{array}$ $\begin{array}{r} 5 \\ 4\overline{)\quad\quad} \end{array}$ $\begin{array}{r} 7 \\ 4\overline{)\quad\quad} \end{array}$ $\begin{array}{r} 3 \\ 4\overline{)\quad\quad} \end{array}$

$\begin{array}{r} 4 \\ 4\overline{)\quad\quad} \end{array}$ $\begin{array}{r} 20 \\ 5\overline{)\quad\quad} \end{array}$ $\begin{array}{r} 7 \\ 3\overline{)\quad\quad} \end{array}$ $\begin{array}{r} 20 \\ 4\overline{)\quad\quad} \end{array}$ $\begin{array}{r} 30 \\ 3\overline{)\quad\quad} \end{array}$

$\begin{array}{r} 62 \\ 2\overline{)\quad\quad} \end{array}$ $\begin{array}{r} 42 \\ 3\overline{)\quad\quad} \end{array}$ $\begin{array}{r} 41 \\ 4\overline{)\quad\quad} \end{array}$ $\begin{array}{r} 25 \\ 5\overline{)\quad\quad} \end{array}$ $\begin{array}{r} 72 \\ 3\overline{)\quad\quad} \end{array}$

Solving Problems

Work Space

1. Sam weighs 14 pounds more than George. If George weighs 78 pounds, how much does Sam weigh? ____________

2. Jane had $1.60 and spent one fourth of it. How much did she spend? ____________

3. Lois had $6.53 and spent $1.25 of it. How much money does she have left? ____________

4. Joel read 65 pages a day for 7 days. How many pages did he read in 7 days? ____________

5. Mr. Jones drove 312 miles on Monday, 288 miles on Tuesday, and 297 miles on Wednesday. In the three days Mr. Jones drove ____________ miles.

6. John had 156 marbles. He gave one third of them away. How many marbles did he give away? ________

7. Jean bought 35 pieces of candy. How many children can she treat if she gives each child 5 pieces of candy? ____________

Practice

Add.

25	65	85	$3.43	$6.43	$8.72
16	17	53	4.14	1.45	1.36
45	18	36	1.26	8.61	4.32
24	24	42	1.12	1.32	1.45

$4.51	$1.73	$8.73	$2.93	$4.75
2.72	5.92	1.47	8.49	2.65

Subtract.

5¢	8¢	59¢	$1.00	$1.64	$1.26
3¢	4¢	36¢	.30	.82	.63

10¢	14¢	72¢	$1.20	$4.32	$8.76
2¢	7¢	36¢	.46	1.48	4.87

Multiply.

9¢	7¢	3¢	$40	$62	$83
2	2	5	2	2	2

37¢	46¢	29¢	$4.01	$2.32	$1.86
2	2	2	2	2	2

Divide.

$2\overline{)18\text{¢}}$ $3\overline{)21\text{¢}}$ $5\overline{)25\text{¢}}$ $4\overline{)28\text{¢}}$ $5\overline{)30\text{¢}}$

$3\overline{)\$1.53}$ $2\overline{)46\text{¢}}$ $2\overline{)\$1.26}$ $4\overline{)\$2.08}$ $3\overline{)\$2.73}$

Problems

Work Space

1. A classroom is 21 feet wide. How many yards wide is it? __________

2. Ruth invited 3 friends to go with her on a picnic. She took 12 sandwiches. How many sandwiches did each girl have if they divided them equally? __________

3. Mary has 10 apples to divide among 4 girl friends and herself. If she divides the apples equally, how many apples will each girl get? __________

4. John has 35 pennies. How many nickels can he get for the pennies? __________

5. Mr. Arnold gave Jim 45 cents to buy popcorn for the boys on his baseball team. How many bags of popcorn will he be able to buy at 5 cents each? __________

6. Miss Herman's schoolroom has 36 seats. They are arranged in 6 rows. There are __________ seats in each row.

7. Frank sold 69 newspapers in 3 hours. If he sold the same number each hour, how many newspapers did he sell in one hour? __________

Practice

Add.

18	32	91	34	44
22	27	28	69	20
15	23	17	60	78
43	15	37	21	11

469	310	421	615	382
270	278	258	460	172
281	165	364	145	366
297	332	107	189	130

Subtract.

645	728	593	475	565
172	436	466	358	309

\$6.87	\$8.92	\$5.17	\$8.03	\$8.62
1.92	7.54	4.85	3.81	5.48

Multiply.

24	75	27	56	96
×2	×5	×3	×4	×2

243	711	811	624	221
×2	×3	×5	×2	×4

Divide.

$2\overline{)648}$ $3\overline{)396}$ $4\overline{)484}$ $2\overline{)260}$

$\frac{1}{2}$ of 6 = ____ $\frac{1}{3}$ of 27 = ____ $\frac{1}{5}$ of 30 = ____

$\frac{1}{4}$ of 8 = ____ $\frac{1}{2}$ of 84 = ____ $\frac{1}{4}$ of 408 = ____

"Yes" or "No"

Answer by writing "Yes" or "No" on the line.

1. Five nickels are the same as 25 cents. ____________
2. Is 16 the right way to write the number sixteen? _____
3. February has 28 days. ________________
4. Every four years February has 28 days. __________
5. Do you add to find the difference between two numbers? ________________
6. Do you add to find the sum of two or more numbers? ______________
7. Do two and one and four make nine? ____________
8. Two quarters are the same as a half dollar. ________
9. A day has 24 hours. ________________
10. Are 37 jets more than 50 jets? ________________
11. The word that means nothing, or 0, is zero. ________
12. Is 99 the largest two place number? ______________
13. Is 20 the smallest two place number? _____________
14. Is a dime more than 3 nickels? ________________
15. Is a quarter more than 4 nickels? _______________
16. Do 3 + 4 and 4 + 3 have the same sum? _________
17. Is 10 hundred the same as 1000? _______________
18. June is the fourth month of the year. _____________
19. Wednesday is the next day after Monday. ________
20. A week has 7 days. ________________

Name Mattew Alan Alvis

School Blonvellire